# Vivekanand College, Kolhapur (Autonomous) 

Dept. of Computer Science
Continuous Internal Evaluation from 2020-21

| Class | Examination | Subject Code | Internal Marks | Distribution | Marks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| B.Sc. I | $\begin{aligned} & \text { November, } \\ & 2019 \end{aligned}$ | Problem Solving using Computers DSE-1006A |  | Test-I | 10 |
|  |  |  |  | Assignment Python | 5 |
|  |  |  |  | Assignment DBMS | 5 |
|  |  |  |  | DBMS CIE Test | 10 |
| B.Sc. III | March, 2021 | Internet Technologies -II |  | Test 1 | 10 |
|  |  |  |  | Test 2 | 5 |
|  |  |  |  | Assignments | 5 |
|  |  |  |  | Test 3 | 10 |
|  | July, 2021 | Data Science using Python |  | Online Test | 10 |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

VIVEKANAND COLLEGE, KOLHAPUR(Autonomous)
Dept. of Computer Science
B.Sc.I

Internal Marks Mar 2021 SEMESTER-II

| Sr.No | Roll No | Python Test | DBMS Ass |  | Python <br> assi |  |
| :---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 1 | 7301 | 10 | 5 | 5 | 9.33 | Total |


| 18 | 7321 | 10 | 5 | 5 | 9.67 | 19.33333 |
| ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 19 | 7322 | 10 | 5 | 5 | 8.67 | 17.33333 |
| 20 | 7323 | 10 | 5 | 5 | 8.67 | 17.33333 |
| 21 | 7324 | 10 | 5 | 5 | 8.33 | 16.66667 |
| 22 | 7308 | 9 | 5 | 5 | 7.67 | 15.33333 |
| 23 | 7325 | 10 | 5 | 5 | 8.67 | 17.33333 |
| 24 | 7326 | 9 | 5 | 5 | 7.67 | 15.33333 |
| 25 | 7327 | 10 | 5 |  | 5.67 | 11.33333 |
| 26 | 7328 | 10 | 5 | 5 | 9.67 | 19.33333 |
| 27 | 7329 | 10 | 5 | 5 | 8.33 | 16.66667 |
| 28 | 7332 | 10 | 5 | 5 | 7.33 | 14.66667 |
| 29 | 7333 | 9 | 5 | 5 | 8.33 | 16.66667 |
| 30 | 7334 | 10 | 5 | 5 | 9.67 | 19.33333 |
| 31 | 7335 | 8 | 5 | 5 | 9.00 | 18 |
| 32 | 7336 | 10 | 5 | 5 | 8.33 | 16.66667 |
| 33 | 7337 | 9 | 5 | 5 | 9.00 | 18 |
| 34 | 7338 | 10 | 5 | 5 | 9.67 | 19.33333 |
| 35 | 7339 | 10 | 5 | 5 | 7.67 | 15.33333 |
| 36 | 7340 | 8 | 5 | 5 | 7.67 | 15.33333 |
| 37 | 7341 | 10 | 5 | 5 | 8.67 | 17.33333 |
| 38 | 7342 | 10 | 5 | 5 | 8.67 | 17.33333 |
| 39 | 7436 | 9 | 5 | 5 | 6.33 | 12.66667 |
| 40 | 7437 | 9 | 5 | 5 | 8.33 | 16.66667 |
| 41 | 7438 | 9 | 5 | 5 | 8.33 | 16.66667 |
| 42 | 7439 | 10 | 5 | 5 | 7.67 | 15.33333 |
| 43 | 7440 | 70 | 5 | 5 | 8.33 | 16.66667 |
| 44 | 7003 | 10 | 5 | 5 | 9.00 | 18 |

## Vivekanand College, Kolhapur

Department of Computer Science
B.Sc.III

Internals Exam Report

| Roll No | Test 1 | Test 2 | ASSIGNMENT | Test 3 |
| :---: | :---: | :---: | :---: | :---: |
| 8206 | 6 | 3 | 3 | 6 |
| 8207 | 7 | 3.5 | 2 | 5 |
| 8208 | 7 | 3.5 | 5 | 9 |
| 8209 | 8 | 4 | 5 | 9 |
| 8210 | 7 | 3.5 | 5 | 9 |
| 8211 | 7 | 3.5 |  | 5 |
| 8212 | 7 | 3.5 | 5 | 9 |
| 8213 | 7 | 3.5 | 5 | 9 |
| 8214 | 6 | 3 | 5 | 8 |
| 8215 | 7 | 3.5 |  | 6 |
| 8216 | 8 | 4 | 5 | 9 |
| 8217 | 8 | 4 | 5 | 9 |
| 8218 | 8 | 4 | 5 | 9 |
| 8219 | 8 | 4 | 5 | 9 |
| 8220 | 8 | 4 | 5 | 9 |
| 8221 | 7 | 3.5 |  | 6 |
| 8222 | 7 | 3.5 |  | 7 |
| 8223 | 8 | 4 | 5 | 9 |
| 8224 | 7 | 3.5 | 5 | 9 |
| 8225 | 7 | 3.5 | 5 | 9 |
| 8226 | 7 | 3.5 | 5 | 9 |
| 8227 | 7 | 3.5 | 5 | 9 |
| 8228 | 8 | 4 | 5 | 9 |
| 8229 | 8 | 4 |  | 5 |
| 8230 | 7 | 3.5 |  | 5 |
| 8231 | 9 | 4.5 | 5 | 10 |
| 8232 |  | 0 |  | 9 |
| 8233 | 7 | 3.5 |  | 9 |
| 8234 |  | 0 |  | 9 |
| 8235 | 7 | 3.5 | 5 | 9 |
| 8236 | 7 | 3.5 | 5 | 9 |
| 8237 | 7 | 3.5 | 5 | 9 |
| 8238 | 7 | 3.5 |  | 6 |
| 8239 | 7 | 3.5 |  | 5 |
| 8240 |  | 0 | 5 | 9 |
| 8241 | 8 | 4 |  | 5 |
| 8242 | 7 | 3.5 | 5 | 9 |


| 8243 | 8 | 4 | 5 | 9 |
| ---: | ---: | ---: | ---: | ---: |
| 8244 | 8 | 4 | 5 | 9 |
| 8245 | 8 | 4 |  | 5 |
| 8246 | 7 | 3.5 | 5 | 9 |
| 8247 | 8 | 4 | 5 | 9 |
| 8248 | 8 | 4 | 5 | 9 |
| 8249 | 8 | 4 | 5 | 9 |
| 8250 | 8 | 4 | 5 | 9 |
| 8251 | 7 | 3.5 |  | 5 |
| 8252 | 8 | 4 | 5 | 9 |


| Vivekanand College, Kolhapur <br> (Autonomous) |  |  |
| :---: | :---: | :---: |
| Department of Computer Science |  |  |
| B.Sc.-I |  |  |
| Database Management System CIE Online Test |  |  |
| Date- 16-08-2021 |  |  |
| Surname | First name | Grade/10.00 |
| Shinde | Omkar | 6 |
| Borage | Samrudhi | 6 |
| Pendhari | Shoaib | 5 |
| Durugale | Shubham | 7 |
| Pandharapatte | Siddhi | 4 |
| Patil | Shweta | 5 |
| Dhavale | Pankaj | 5 |
| Ambardekar | Siddika | 4 |
| Vanarse | Sahil | 10 |
| Powar | Sayali | 10 |
| Hawale | Abhishek | 6 |
| Shintre | Isha | 7 |
| Pathan | Shifa | 6 |
| Vibhute | Vidira | 5 |
| Chougule | Madhura | 10 |
| Kamate | Sakshi | 5 |
| Patil | Apeksha | 5 |
| Bote | Prajkta | 5 |
| Chavan | Komal | 8 |
| Shinde | Sejal | 6 |
| Patil | Dnyaneshwari | 5 |
| Patil | Mithila | 5 |
| Tahsildar | Pratik | 10 |
| Kante | Gunjan | 5 |
| Ananda Patil | Gayatri | 10 |
| Gadave | Swarup | 6 |
| More | Onkar | 9 |
| Kale | Aditya | 5 |
| Kesarkar | Nikhil | 10 |
| Waghmare | Rutuja | 6 |
| Todkar | Shveta | 9 |
| Ingale | Shreyash | 6 |
| Chogule | Prathamesh | 6 |
| Ingale | Aditi | 4 |
| Shinde | Sanika | 10 |
| Jadhav | Parth | 5 |
| Ghumai | Dhiraj | 3 |


| Kore | Shubham | 6 |
| :--- | :--- | ---: |
| Shaikh | Aman | 10 |
| Nadale | Swapnali | 10 |
| Patil | Vrushali | 10 |
| Jasud | Atharva | 6 |
| Bhopale | Animesh | 3 |
| Chougule | Tejas | 5 |
| Yadav | Aishwarya | 10 |


| Vivekanand College, Kolhapur (Autonomous) |  |  |
| :---: | :---: | :---: |
| Department of Computer Science |  |  |
| B.Sc.-II |  |  |
| Operating System CIE Online Test |  |  |
| Date- 09-11-2020 |  |  |
| Last name | First name | Grade/10.00 |
| Powar | Prashant | 9.36 |
| Sutar | Vaishnavi | 6.16 |
| Kugaji | Bhargavi | 9.2 |
| ARADE | SAMADHAN | 9.6 |
| Kadwale | Ananya | 9.6 |
| Chavan | Pratik | 9.2 |
| Prabhavale | Uditanshu | 9.12 |
| Jadhav | Sayali | 8.64 |
| Chougale | Ketan | 9.6 |
| Khandare | Pankaj | 10 |
| Shinde | Kirti | 9.2 |
| Sankpal | Prajakta | 10 |
| Katyar | Kajal | 10 |
| Patil | Snehal | 9.2 |
| Mali | Karishmakumari | 9.12 |
| Patil | Sunil | 9.01 |
| Katyar | Preeti | 10 |
| Jamadar | Tasmiya | 7.52 |
| Nirmale | Snehal | 9.6 |
| Mulla | Ashraf | 8.23 |
| Dinde | Rutuja | 10 |
| Dabade | Shweta | 8 |
| Sutar | Harshada | 9.01 |
| Jadhav | Vaishnavi | 9.2 |
| Korde | Shreya | 9.6 |
| Powar | Saraswati | 8 |
| Giri | Poonam | 8.93 |
| Sagaonkar | Tejashree | 10 |
| Shintre | Pranjal | 9.6 |
| Mahadik | Akshata | 6.4 |
| Desai | Akanksha | 4.35 |
| Patil | Nikita | 8.57 |
| Magdum | Rajvardhan | 9.6 |
| Patil | Siddharth | 4.4 |
| Patil | Sakshi | 8.8 |
| Patil | Rohan | 8.36 |
| Patil | Aadesh | 4.77 |


| Shivane | Ashutosh | 9.2 |
| :--- | :--- | :---: |
| Patil | Santosh | 8.4 |
| Kharat | Komal | 6.05 |
| Ekal | Sanket | 9.2 |
| Patil | Shritej | 9.33 |
| Patil | Sujit | 9.6 |
| Khurandale | Vaishnavi | 7.68 |
| Patil | Sammed | 7.11 |
| Garadi | Sania | 4 |
| Dabade | Amruta | 8.16 |
| Chavan | Aishwarya | 2.47 |
| Patil | Abhishek | 7.6 |
| Pusalkar | Tanay | 7.65 |
| Overall average |  | 8.33 |


| Vivekanand College, Kolhapur <br> (Autonomous) |  |  |
| :---: | :---: | :---: |
| Department of Computer Science |  |  |
| B.Sc.-II |  |  |
| Operating System CIE Online Test |  |  |
| Date- 29-05-2021 |  |  |
| Last name | First name | Grade/10.00 |
| Tashildar | Prathamesh | 7 |
| Dinde | Rutuja | 10 |
| ARADE | SAMADHAN | 10 |
| Korde | Shreya | 10 |
| Nirmale | Snehal | 10 |
| Kadwale | Ananya | 10 |
| Katyar | Preeti | 9 |
| Chavan | Pratik | 10 |
| Khandare | Pankaj | 10 |
| Chougale | Ketan | 10 |
| Sankpal | Prajakta | 10 |
| Jadhav | Sayali | 9 |
| Giri | Poonam | 10 |
| Prabhavale | Uditanshu | 9 |
| Patil | Sunil | 9 |
| Magdum | Rajvardhan | 10 |
| Patil | Santosh | 10 |
| Patil | Snehal | 10 |
| Patil | Shritej | 10 |
| Shinde | Kirti | 10 |
| Ekal | Sanket | 9 |
| Mulla | Ashraf | 9 |
| Pusalkar | Tanay | 9 |
| Jamadar | Tasmiya | 8 |
| Patil | Siddharth | 7 |
| Sutar | Harshada | 10 |
| Patil | Nikita | 10 |
| Patil | Sakshi | 7 |
| Jadhav | Vaishnavi | 10 |
| Patil | Rohan | 10 |
| Khurandale | Vaishnavi | 9 |
| Dabade | Shweta | 10 |
| Sutar | Vaishnavi | 8 |
| Katyar | Kajal | 10 |
| Mali | Karishmakumari | 10 |
| Shintre | Pranjal | 10 |
| Shivane | Ashutosh | 10 |


| Kugaji | Bhargavi | 10 |
| :--- | :--- | :---: |
| Sagaonkar | Tejashree | 10 |
| Desai | Akanksha | 6 |
| Powar | Saraswati | 9 |
| Dabade | Amruta | 7 |
| Chavan | Aishwarya | 10 |
| Garadi | Sania | 8 |
| Patil | Sujit | 10 |
| Powar | Prashant | 6 |
| Patil | Sammed | 10 |
| Patil | Aadesh | 10 |
| Patil | Abhishek | 10 |
| Mahadik | Akshata | 10 |
| Kharat | Komal | 9 |
| Sutar | Vishwajeet | 10 |
| Muthane | Vaishnavi | 9 |
| Chavan | Aishwarya | 0 |
| Overall average |  | 9.13 |


| Vivekanand College, Kolhapur <br> (Autonomous) |  |  |
| :---: | :---: | :---: |
| Department of Computer Science |  |  |
| B.Sc.-III |  |  |
| Software Engineering CIE Online Test |  |  |
| Date- 19-07-2021 |  |  |
| Last name | First name | Grade/10.00 |
| Yamgarnikar | Snehal | 10 |
| Kamble | Prajakta | 10 |
| Salunkhe | Kalyani | 10 |
| Mahajan | Sakshi | 10 |
| Patil | Vinod | 8.2 |
| Shaikh | Muskan | 10 |
| Shete | Aditi | 10 |
| Shinde | Pratik | 10 |
| Patil | Vaishnavi | 10 |
| Karoshi | Spurthi | 10 |
| Patil | Shivam | 10 |
| Todkar | Sharvari | 8.67 |
| Chougale | Niranjanee | 9 |
| Patil | Snehal | 10 |
| Yadav | Rutuja | 10 |
| Kadam | Archiet | 10 |
| Patil | Amruta | 8.67 |
| Patil | Gautam | 10 |
| Sawant | Bhakti | 10 |
| kamble | Yash | 9.8 |
| Patil | Shivam | 10 |
| Valvi | Rajendra | 9.83 |
| Kamble | Shubhangi | 8.17 |
| Nille | Aishwarya | 10 |
| Momin | Misba | 8.67 |
| PATIL | PRANAV | 9.83 |
| Koundade | Shubham | 10 |
| Powar | Akash | 9.83 |
| Patil | Pooja | 10 |
| Kamble | Rahul | 8.67 |
| Pathare | Akshata | 6.37 |
| Kamble | Tejashri | 9.2 |
| Jangate | Ajit | 8.67 |
| Bagnikar | Sanket | 10 |
| Patil | Rohan | 10 |
| Sasne | Rutvik | 7.33 |
| Urane | Rachana | 10 |


| Mane | Prem | 10 |
| :--- | :--- | :---: |
| Bhosale | Shubham | 9.03 |
| Kharade | Nisha | 10 |
| Yadav | Saiprasad | 10 |
| Shetke | Atharva | 9 |
| Chougale | Shubham | 10 |
| RAJPUT | VISHWAJEET | 8.67 |
| Patil | Shubham | 10 |
| Pawar | Aishwarya | 10 |
| Nimbalkar | Manasi | 10 |
| Patil | Amruta | 0 |
| Overall average |  | 9.33 |


| Vivekanand College, Kolhapur (Autonomous) |  |  |
| :---: | :---: | :---: |
| Department of Computer Science |  |  |
| B.Sc.-III |  |  |
| Data Science using Python CIE Online Test |  |  |
| Date- 20-07-2021 |  |  |
| Surname | First name | Grade/10.00 |
| Patil | Snehal | 10 |
| Sawant | Bhakti | 10 |
| Patil | Pooja | 10 |
| Patil | Vaishnavi | 10 |
| Kadam | Archiet | 10 |
| Chougale | Niranjanee | 10 |
| Patil | Shubham | 9 |
| Todkar | Sharvari | 10 |
| Patil | Amruta | 9 |
| Powar | Akash | 10 |
| Patil | Shivam | 10 |
| kamble | Yash | 10 |
| Mane | Prem | 10 |
| Kamble | Rahul | 10 |
| Valvi | Rajendra | 10 |
| Karoshi | Spurthi | 10 |
| PATIL | PRANAV | 10 |
| Shete | Aditi | 10 |
| Shinde | Pratik | 10 |
| Koundade | Shubham | 10 |
| Kamble | Prajakta | 10 |
| Patil | Shivam | 10 |
| Yadav | Saiprasad | 10 |
| Nille | Aishwarya | 10 |
| Salunkhe | Kalyani | 10 |
| Mahajan | Sakshi | 10 |
| Yamgarnikar | Snehal | 10 |
| Yadav | Rutuja | 10 |
| Patil | Vinod | 9 |
| Chougale | Shubham | 10 |
| Momin | Misba | 10 |


| Kamble | Shubhangi | 10 |
| :--- | :--- | ---: |
| Shaikh | Muskan | 10 |
| Shetke | Atharva | 10 |
| Patil | Gautam | 10 |
| Patil | Rohan | 9 |
| Sasne | Rutvik | 10 |
| Pawar | Aishwarya | 10 |
| Bagnikar | Sanket | 10 |
| Kamble | Tejashri | 9 |
| Jangate | Ajit | 10 |
| Urane | Rachana | 10 |
| Kharade | Nisha | 10 |
| Pathare | Akshata | 10 |
| Nimbalkar | Manasi | 10 |
| Bhosale | Shubham | 10 |
| Overall average |  | 9.89 |

Date: 291/100'
$\square$
Shri Swami Vivekanand Shikshan Sanstha's VIVEKANAND COLLEGE (Autonomous), KOLHAPUR

Class $\qquad$ Div Roll No. 79 if
$\qquad$
$\qquad$ Supplement No. Subject

## Test / Tutorial No

© Explain in detail UML Architecture
UML Architecture: In real world system is used by diff. users. it may be devebper, tester, soft. E, business people\& many more. the software architecture when designed system he will made with diff prespe -active in her mind. which is easy to understand diff users. The most system is visulize by diff view.

The soft architecture will help to achive quality in system to designed with soft twats qualities like seperation \& concern. easy to adar the system become many easy to maintain, reuse $\&$ adapt. the system is lesed by project manager, dient \& end users. they have their own views, \& building agenda's. it is easy by follow $s$ views UML Architecture:


- process

[^0]- System topology
- Delivery
- Installation.
- Distribution
(1) use-case view: (1) It is the view that 3 how functionality of system that prerecived from the external users (2) It relives the system requirement (3) It capture static UMLien of these view to for state-chart diag, activity diag. use-case did.
(2) Design view:(1) It is the view that shows the
(8) how functionality is made in the system.
(2) vocabalary accessed the problem space \& soil space.
(3) Implimentation view: (p) It the view that organised core component \& files
(4) Process view: (1) It demonstrate the concurred. $t$ of the system it concurrent threats \& process may sychronized mechanism.
(5) Deployment view. (1) It dehinonstrate the view that demonstrate the deployment with physical architecture. (2) it include the node of software topology \& execute the system.
Q. 4 Explain in detail conceptual Model of UML conceptul of UTIL: conceptual model is concept of several interrelated ob component it is easy to understand \& it related to the obj each other this is the st step before drawing the UTML.
following object are the objects of the UMIL which needed in.
(1) object: A object is ap real world entity it may more present in single system.
(2) class: doss is a software blueprint for
an object which is used to define veriables. methods common to all system.
(3) Abstraction: It is essential characteristics of fiserstem that hiding irrelent information
(4) Inheritance: It derived new ass from the existing doss.
(5) polymorphism: It is the mechanism which how diff forms for diff purpose.
(6) EnCapsulation: It bind data \& abject toge -then for using enabling tight coupling bet them.
Q. 1 Draw DFD \& ERD for your system.

Q. 6 Explain class, object \& Inheritance in detail $\rightarrow$ (1) object: object is a real world entity which have diff. methods, the obj have more in a single system. it is instiated by ass. thus it is instance of class.
(2) Inheritance: Inheritance is a ext. derived a new class by existing class. the existing class called as superclass, baseclass or parent class. of and new ass is also called as child ass or inner lass or subdass

In child class include attributes of the existing class it max also haveindude there own attributes.
for e.9. mammal is a class of human object it have many cow is mammal
in this die eg. cow is sub class.

Department of ( ompuler beience
C f Infernalf xamination
Class: IB Sc. 1 subject: (omputer Science

Date: 05/03/2021
Time: IHrs

Solve any 10 :

Ith which language is P'ython written?
a) 1 ng lish
b) PHP
$\mathscr{C H}$
A)All of the above
2. Which one of the following is the correct extension of the Python file?
(a) $p y$
b) python
c) P
d) None of these
3. What do we use to define a block of code in Python language?
a)Key
b)Brackets
c)Indentation d) None of these
4. Which of the following functions is a built-in function in python language?
a) vale,
yrprint()
c)input()
d) None of these
5. Which of the following is an invalid variable?
a) mystring I
b) Ist string
c) fOO
d) peri
6. Which one of these is modulus operator?

1) /
b) //
(e) $\%$
d) None of the mentioned
7. What is the answer to this expression, $22 \% 3$ is?
a) 7
b) 1
d) 5
g) 0

8 . What will be the value of the following Python expression? $4+3 \% 5$
a) 4
b) 7
c) 2
d) 0
9. What is the putput of
$\Rightarrow x-15$
$>\operatorname{print}(x)$
a) 20
bol 15
c) 40
d) 10
10. What is the output of

c) 132
d) 131
$\qquad$ statement is used in python to take input from user.
a) print()
b)input() c)printf()
d)inutn()
12. $\qquad$ is a python prompt.
a. $\lll$
b. $\ggg$
c. $\ggg$
d./
13. $\qquad$ is used as a translator in python
a)compiler
b)intepreter
c) translator
d)converter
14. PYTHON is a $\qquad$
c)operating system
d)natural language
15. Every if ststement shoulb be followed by
(a):
b);
c)"
d)'

#  <br> Department of Computer Science <br> CS-Internal Examination <br> Class: 13.sc. I <br> Subject: (computer Science 

```
Oafe:05/0.3/2021
```

Time:
Solve any 10 :
1.In which language is Python written?
a)! English
b)PIIP
c) (
(d )All of the above
2. Which one of the following is the correct extension of the Python file?
a). $p y$
(b) .python
c). p
d) None of these
3. What do we use to define a block of code in Python language?
a) Key
b) Brackets
c) Indentation
d) None of these
4. Which of the following functions is a builtin function in python language?
a) Val()
b) print()
c) input()
d) None of these
5. Which of the following is an invalid variable?
a). mystring I
(b) I st string
c) foo
d) peri
6. Which one of these is modulus operator?
a)
b) //
(c) $\%$
d) None of the mentioned
7. What is the answer to this expression, $22 \% 3$ is?
a) ?
b) 1
c) 0
d) 5
8. What will be the value of the following Python expression? $4+3 \% 5$
a) 4
b) 7
(c) 2
d) 0
9. What is the putput of
$\ggg x=15$
$\ggg \operatorname{print}(x)$
4) 20
b) 15
c) 40
d) 10
10. What is the output of
$\ggg x=5$
> $y=67$
$\begin{array}{llll}\text { a) } 132 & \text { b) } 13,1 & \text { c) } 132 & \text { d) } 131\end{array}$
11.
a) $\operatorname{print()}$ statement is used in python to take input from user.
(b)input()
c) printf()
d) inutn()
12. $\qquad$ is a python prompt.
a. $\lll$

ᄂ. $\ggg$
c. $><>$
d./
13. $\qquad$ is used as a translator in python
a)compiler b)intepreter
c) translator
d) converter
14. PYTHON is a $\qquad$
a)software
b)hardware
c)operating system
d)natural language
15. Every if ststement shoulb be followed by
(a) :
b);
c)"
d)'

# VIVEKANAND(OLIEGS,KOIHAER(Autonomous) <br> Department of Computer Science <br> CS-Internal Examination <br> Class: BASe. I Subject: Computer Science <br> Time: 1 Hr- 

Date: $05 / 03 / 2021$
Solve any 10:

1. In which language is Python written?
ah english
b) PHP
c) $C^{\circ}$
d) All of the above
2. Which one of the following is the correct extension of the Python file?
a). pr
b). python
c). p
d) None of these
3. What do we use to define a block of code in Python language?
a) Key
b) Brackets
c) Indentation
d) None of these
4. Which of the following functions is a builtin function in python language?
a) val()
b) print()
eftinput()
d) None of these
5. Which of the following is an invalid variable?
a) mystring 1
b) lIst string
c) foo
d) peri
6. Which one of these is modulus operator?
b) //
е) \%
d) None of the mentioned
7. What is the answer to this expression, $22 \% 3$ is?
a) 7
b) 1
c) 0
d) 5
8. What will be the value of the following Python expression? $4+3 \% 5$
a) 4
b) 7
c) 2
d) 0

9. What is the putput of
$\ggg x=15$
$\geqslant \operatorname{\beta rint}(x)$
a) 20
b) 15
c) 40
d) 10
10. What is the output of
$\begin{aligned} \ggg x & =5 \\ \gg y & =67\end{aligned}$
$\ggg \operatorname{print}(y / x y$, , ", $y \% x)$
a) 132
b) 13,1
c) 132
d) 131
11. $\qquad$ satemeat is used in python to tahe in put from user. a |print
brimput() (iprintfi)
dinutn()

12 $\qquad$ is a python prompt.
a. $\lll$

13 $\qquad$ is used as a translator in python
a kompiler bhintepreter
c)transiator
dxanverter
14. f THON is a $\qquad$ _
asoftware blhardware
choperating sy stem
d) natural language
15. Every if ststement shoulb be followed by
$3^{3}$.
b):
c) ${ }^{-}$
d)

# Vivekanand College, Kolhapur (Autonomous) <br> Department of Computer Science 

## B.Sc. III (Sem V) Internal Examination March-2021 <br> Subject: Software Engineering

Date: 19/03/2021
Duration: 30mins

## Instructions:

1. Attempt all Questions
2. Each question carries I mark
1) A $\qquad$ means "an organized relationship among functioning units or components".
a) Software
b) System
c) Application
d) Function
2) $\qquad$ characteristics of a system refer to the manner in which each component functions with other components of the system.
a) Interdependence
b) Integration
c) Interaction
d) Organization
3) $\qquad$ is a document that captures complete description about how the system is expected to perform.
a) SDS
b) SRS
c) SMS
d) None of these
4) In Waterfall Model $\qquad$ phase checks that the software is running efficiently and with minimum errors.
a) Design
b) Coding
c) Maintenance
d) Testing
5) The practical extent to which a project cán be performed successfully is termed as
$\qquad$ .
a) FFT
b) ERD
c) Feasibility
d) None of these
6) Accurate information can be collected with help of specific methods to get correct information is termed as $\qquad$ .
a) System Design
b) System Testing
c) Feedback d) Fact Finding
7) For object-oriented software $\qquad$
object modelling language is used.
a) Unifield Modeling Language
b) Union Modeling Language
c) Unified Modeling Language
d) Undefined Modeling Language
8) $\qquad$ is the process of extracting, structuring and organizing knowledge from one source, usually human experts.
a) Knowledge Development
b) Knowledge gain
c) Knowledge acquisition
d) None of these
9) The reasoning and justification behind human decisions, opinions and beliefs is considered in

Rationale
b) Software Design
c) $\mathrm{SDL}($
d) None of these
10) The coding (internal logic) of the software is checked in $\qquad$
a) Black Box testing
b) White box testing
c) Alpha Testing
d) All of these

## Vivekanand College, Kolhapur (Autonomous)

## Department of Computer Science

## B.Sc. III (Sem V) Internal Examination March-2021 <br> Subject: Software Engineering

Duration: 30mins
Date: 19/03/2021

## Instructions:

1. Attempt all Questions
2. Each question carries 1 mark
1) A components". means "an organized relationship among functioning units or
a) Software
b) System
c) Application
d) Function
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c) Interaction
b) Integration
d) Organization
3) $\qquad$ is a document that captures complete description about how the system is expected to perform.
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c) SMS
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c) Alpha Testing
d) All of these

## B.Sc. III (Sem V) Internal Examination March-2021 <br> Subject: Computer Network

Date: 19/03/2021
Duration: 30mins

## Instructions:

1. Attempt all Questions
2. Each question carries 1 mark
1) In OSI model, when data is sent from device $A$ to device B , the 5 th layer $t$ p receive data at $B$ is $\qquad$ -
a) Application layer
b) Transport layer
c) Link layer d) Session layer
2) Bluetooth is an example of $\qquad$ $\therefore$
a) personal area network
b) local area network
c) virtual private network
d) wide area network
3) When collection of various computers seems a single coherent system to its client, then it $\chi$ is called $\qquad$ -
a) computer network

- distributed system
d) mail system

4) How many layers are present in the Internet protocol stack (TCP/IP model)?
a) 5
b) 7
c) 6
d) 10
5) Which of the following networks extends a private network across public networks?
(a) Tocal area network
b) virtual private network
c) enterprise private network
d) storage area network
6) Which of the following are transport layer protocols used in networking?
a) TCP and FTP
b) UDP and HTTP
a) TCP and UDP
d) HTTP and FTP
7) Transport layer is implemented in $\qquad$ .
a) End system
, b) NIC
c) Ethernet
d) Signal transmission
8) A $\qquad$ is a device that forwards packets between networks by processing the routing information included in the packet.
a) bridge
b) firewall
e) router
d) hub
9) The number of layers in ISO OSI reference model is $\qquad$ .
a) 5
b) 7
c) 6
d) 10
10) $\qquad$ topology requires a multipoint connection.
a) Star
b) Mesh
c) Ring
d) Bus

Date: 19/03/2021

Vivekanand College, Kolhapur (Autonomous)

## Department of Computer Science

## B.Sc. III (Sem V) Internal Examination March-2021 <br> Subject: Computer Network

Duration: 30mins

## Instructions:

1. Attempt all Questions
2. Each question carries I mark
1) In OSI model, when data is sent from device $A$ to device $B$, the 5 th layer to receive data at B is $\qquad$
a) Application layer
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# Vivekanand College, Kolhapur (Autonomous) 

## Department of Computer Science

## B.Sc. III (Sem V) Internal Examination March-2021 <br> Subject: Computer Network

Duration: 30 min s

## Date: 19/03/2021

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1 Attempt all Questions
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b) distributed system
c) networking system
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## Vivekanand (allege, Kolhapur (Autonomous)

Department of Computer science
Internal Examination 2021
Subject Java Programmong
( lass: I.).B.Sc. (Sem-V)
Time: 30 minutes

Roll Number:
Total Marks: 10

## Q.1. Select correct alternative and put it into box given.

i) The keyword allows main() to be called without creating any
a) public, instances
h) void, objects
¢) static, objects
d) static, classes

ii) Which of the following is correct syntax for compiling java program?
a) java prname 12
b) java prname.java
c) javas prname.java 12
d) javas prname.java

iii) Which of the following is valid header for main() method?
i. public static void main(String a|)
ii. public static void main(String|| a)
iii. Static public void main(String a[])
iv. static public void main(String al|)
a) only i
b) only i, ii
c) i, ii, iii
d) i, ii, iii, iv

iv) Select the odd pair of data types from the following:
byte, short, int, long, float, double
a) byte, short
b) int, long
c) float, double
d) int, float


1) Name the operators: $<, \&, \| .{ }^{*}=$
a. Conditional, Bitwise, Relational, Assignment
b. Relational, Logical, Bitwise, Compound Assignment
s. Relational, Bitwise, Logical, Compound Assignment
d. Relational, Bitwise. Bitwise, Assignment
(i) Which of the following is true for Array in Java?
i. It is an Object in Java
ii. It is collection of same type elements
iii. Array variables may be of non-primitive types
iv. Element of array is accessed by subscript
a) only i
b) only i, ii
c) i, ii, iii
d) i, ii, iii, iv

$$
d
$$

vii) What is the output of following Java Statement?

System.out.print $\ln ((4 \& 5) \mid(4 \mid 5))$;
a) 2
b) 3
c) 4
d) 5
viii) What is the output of following Java Statemente?

System.out.println(!(!(10<20\&\& $10<30 \|!(5>6))))$;
a) 0
b) 1
c) true
d) false

ix) Which is/are of the following not true for 'this' keyword?
a) It is used create ambiguity between local and instance variable
b) It is used create constructor within another constructor
c) Both a and b
d) None of these
x) $\qquad$ method exists even when there is no object created, it can be invoked using the $\qquad$ name and it belongs to the $\qquad$ .
a) Public, object, class
b) Private, object, object
c) User defined, object, class
d) Static, class, class

# Vivckanand College, Kolhapur (Autonomous) 

## 1)epartment of (omptiter science

Infermal lamination 2021

(lass: 1. V.13.sc. (sem-V)
Time: 30 minutes

Roll Number: 8213
Iotal Marks: 10

## Q.1. Select correct alternative and put it into box given. <br> (D. Scheĉ correch

 allows main() to be called wilhoul creating anya) public, instances
b) void, objects
c) static, objects
d) static, classes

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b) java promamejava
c) javae prname.java 12
d) javac promame java

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iv. static public void main(String all)
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c) i, ii, iii
d) i, ii, iii, iv

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byte, short, int, long, float, double
a) byte, short
b) int, long
c) float, double
d) int, float
v) Name the operators: $<, \mathbb{E}, \|,{ }^{*}=$
a. Conditional, Bitwise, Relational, Assignment
b. Relational, Logical, Bitwise, Compound Assignment
c. Relational, Bitwise, Logical, Compound Assignment

d. Relational, Bitwise, Bitwise, Assignment
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a) only i
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c) i, ii, iii
d) i, ii, iii, iv
vii) What is the output of following Java Statement?

System.out.println((4\&5)|(4|5));
a) 2
b) 3
c) 4
d) 5

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System.out.println(!(! (10<20\&\& $10<30 \|!(5>6))))$;
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b) Private, object, object
c) User defined, object, class
d) Static, class, class


# Vivekanand College, Kolhapur (Autonomous) 

## Department of Computer science

Internal Examination 2021
Subject Java l'rogeranmome
( lass: I.V.B.Se. (Sem-V)
Roll Number:
Time: 30 minutes
Total Marks: 10
Q.1. Select correct alternative and put it into box given.
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a) public, instances
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iii. static public void main(String a[])
iv. static public void main(String a[])
a) only i
b) only i, ii
c) i, ii, iii
d) i, ii, iii, iv

iv) Select the odd pair of data types from the following: byte, short, int, long, float, double
a) byte, short
6) float, double
b) int, long
d) int, float
v) Name the operators: $<, \&, \|, *=$

a. Conditional, Bitwise, Relational, Assignment
b: Relational, Logical, Bitwise, Compound Assignment
c. Relational, Bitwise, Logical, Compound Assignment
d. Relational, Bitwise, Bitwise, Assignment


# Vivekanand College, Kolhapur (Autonomous) 

## Department of Computer Science

Internal Examination 2021

## Subject: Computer Science (Part-II)

| Class: F.Y.B.Sc. (Sem-I) | Date: 6/03/2021 | Roll Number: 7335 |
| :--- | ---: | :--- |
| Time: $\mathbf{3 0}$ minutes | Total Marks: $\mathbf{1 0}$ | Marks obtained: |

## Q.1. Select correct alternative and put it into box given.

i) The following are functions of a DBMS except $\qquad$
a) creating and processing forms
b) creating databases
c) processing data
d) administrating database
ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called $\qquad$
a) data abstraction
b) data independence
c) both a and b
d) none of the above
$\square$
iii) USE keyword is used to select a $\qquad$ .
a) table
b) column
c) database
d) all of the above

iv) $\qquad$ is not a data type of MySQL.
a) float
b) date
c) double
d) string
d
v) $\qquad$ is used as default SQL statement delimiter.
a) ;
b) ,
c) :
d). $\square$
vi) Which of the following is/are the component/s of DBMS?
a) hardware
b) software
c) data
d) All of these $\square$
vii) $\qquad$ language is a simple language designed to communicate with database environment.
a) Database Access
b) Communication
c) both a and b
d) None of these
viii) Centralized control of database is exerted by a person or group of persons is referred as $\qquad$ and a person or group of persons doing such task is known as $\qquad$ .
a) Database administration, Database administrator
b) Database Observation, Database Observer
c) Database monitoring, Database monitor
d) None of these
ix) Which is/are of the following disadvantages of file system?
a) Data redundancy
b) Data inconsistency
c) Data isolation
d) All of these
x) Which is not true about DBMS from the following?
a) These are large systems
b) These are single user systems
c) These systems provides better security
d) These systems provides better data access

# Vivekanand College, Kolhapur (Autonomous) 

## Department of Computer Science

Internal Examination 2021
Subject: Computer Science (Part-II)

Class: F.Y.B.Sc. (Sem-I)
Time: 30 minutes

Date: 6/03/2021
Total Marks: 10

Roll Number: 1312
Marks obtained:

## Q.1. Select correct alternative and put it into box given.

i) The following are functions of a DBMS except $\qquad$
a) creating and processing forms
b) creating databases
c) processing data
d) administrating database

ii) The ability to modify a schema definition in one level without affecting a schema definition in the next higher level is called $\qquad$
a) data abstraction
b) data independence
c) both $a$ and b
d) none of the above
$\square$
b
iii) USE keyword is used to select a $\qquad$ .
a) table
b) column
c) database
d) all of the above $\square$
iv) $\qquad$ is not a data type of MySQL.
a) float
b) date
c) double
d) string

v) $\qquad$ is used as default SQL statement delimiter.
a) ;
b) ,
c) :
d) .
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# Vivekanand College, Kolhapur (Autonomous) 

## Department of Computer Science

Internal Examination 2021
Subject: Computer Science (Part-II)

Class: F.Y.B.Sc. (Sem-I)
Time: $\mathbf{3 0}$ minutes

Date: 6/03/2021
Total Marks: 10

Roll Number: 1328
Marks obtained:

## Q.1. Select correct alternative and put it into box given.

i) The following are functions of a DBMS except $\qquad$
a) creating and processing forms
b) creating databases
c) processing data
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$\square$
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a) table
b) column
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iv) $\qquad$ is not a data type of MySQL.
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b) date
c) double
d) string $\square$
v) $\qquad$ is used as default SQL statement delimiter.
a) ;
b) ,
c) :
d).
vi) Which of the following is/are the component/s of DBMS?
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Algorithm $\qquad$
Assignment No. 1
Q1 What is algorithm? Explain it.
Defination: An algorithm is a finite sequence of well-defined, computer -implementable instructions, typically to solve a class of problems or to perform a computation.

The term finite means that the algorithm reach an end point and cannot run forever.
An algorithm is step by step procedure to solve a given problem.
you can find algorithm everywhere in your life, not just in computer science.
Eg. The process to make a sandwich.
The process to make a cup of tea.

Q 2] Write advantages and disadvantages of algorithm
Advantages of algorithm:
1 It is a step wise representation of a solution to given problem, which makes it easy to understand.
2) An algorithm uses a definite procedure.

3] It is not dependent on any programming language so it is easy understand for anyone even without any programming language.
4 Every step in algorithm has its own logical sequence so it is easy to debug.
5) By using algorithm, the problem is broken down into smaller pieces or steps hence it is easiar for programmer to convert it into actual programmer.

Disadvantages of algorithm:
1] Algorithm is time consuming.
2) Difficult to show branching and looping in algorither

3] Big tasks are difficult to put in Algorithms.

Q3 Write features of algorithm.
The following are the features of a good algorithm
1] Precision: a good algorithm must have certain out steps. The steps should be exact enough and not: varying.
2) Uniqueness: each step taken the algorithm should give definite result as stated by the writer of the algorithm. The results should not fluctuate by any means.

3] Feasibility: The algorithm should be possible ans practicable in real life. it should not be abstract or imaginary.

4] Input: a good algorithm must be able to accept a set of defined input.

50utput: a good algorithm should have be able ti produce results as output, preferably solutions.
6. Finiteness: the algorithm should have a stop after a certain number of instructions.

Assignment No 2
Q1 What is constant? Give five examples
Defination: Data values that stay the same every time a program is executed are known as constants. constants are not expected to change.
Ex. 10, 20, 30, 40,50 etc.
Q2] What is variable? Give two examples
Defination: Variables are data values that can change When the user is asked a question. variables may change during program execution.
ex.
i) 'Marks' would need to be variable to change throughout a year.
ii) 'Age' would need to be variable as change day by day.

Q 3 Write an algorithm to print multiplication of 4 NOS.

$$
5 \cdot 10 \cdot 20 \cdot 30
$$

Algorithm to print multiplication of 4 nos. 5, 10, 20,30. :
Step 1 : Start
step $2:$ no l $=10$
Step $3: n 02=5$
Step $4:$ no $3=15$
step $5: n 04=20$
Step $6: n 05=30$
step 7 :ans $=$ no 1 ${ }^{*}$ no $2^{*}$ no 3 * no 4* $n o 5$
Step 8 : print ans
step 9 : End.

Q4 Write an algorithm to print multiplication of 3 nc inputted by user.
Algorithm to print multiplication of 3 nos. inputted by
Step 1 : Start
Step 2 : Input no 1, no 2, no 3
Step 3 : ans $=n 01^{*} n \mathrm{O} 2^{*}$ no 3
Step 4 : print ans
step 5 : End.
If Input 10.20.30
Output 6000
If Input 3, 2, 5
Output 30

Assignment No. 3 $\qquad$
$\qquad$
Q. 1 Write an algorithm to find area and perimeter of rectangle. Length and breadth should be entered by user Algorithm to find area of rectangle, length and breadth entered by user:

Step 1 : Start
Step 2 : Input length
Step 3 : Input breadth
step 4 : area $=$ length $*$ breadth
step 5 : perimeter $=2^{*}($ length + breadth $)$
step 6 : print area.
Step 7 : print perimeter
Step 8 : End
If Input: 45
output: $20 \quad 18$
Input: 68
output: $48 \quad 28$

Q2 Write an algorithm to find area and perimeter of square Algorithm to find area and perimeter of square.

Step 1: Start
Step 2: Input side
Step 3: area $=$ side* side
step 4: perimeter $=4^{*}$ side.
Step 5 : print area.
Step 6 : print perimeter

Assignment No. 4

Q 1 Write an algorithm to enter any number and check whether the number is greater than 10 or not (eg Input 2 output "No is not greater than 10") An algorithm to check whether the number is greater than 10 or not.

Step 1: Start
Step 2: Input number
step 3: if number $>=10$
Yes goto 4
No goo 6
Step 4 : print "No. is greater than or equal to 10 "
step 5 : goto end
step 6: print "No is less than 10 "
step 7: End
Input - 12
output - 12 is greater than 10 .
Input - 4
output 4 is less than 10 .

Q2 Write an algorithm to enter a year in numeric form and check the inputted year is leap year or not (eg Input 2000 output "leap year")
An algorithm to check the inputted year is leap year or not.

Step 1: Start
Step 2: Input year
step 3: If year $\% 4==0$
Yes goo 4
No goo 6
Step 4 : print ("leap year")
Step 5 : goto end
Step 6: print ("year is not leap")
Step 7: End
Input 2021
output - year is not leap
Input - 2012
output leap year.

Assignment No 5

Q1 Write an algorithm to print Numbers from 1 to 80 Step 1 : Start
Step $2: n 0=1$
Step 3 : Test if no $<=80$
Yes got 4
No gobo 7
Step 4 : print no
Step 5: no = no +1
Step 6 : goto 3
Step 7 : End.
output
$\begin{array}{lllllllll}1 & 2 & 3 & 4 & 5 & 6 & 7 & \ldots . . & 80 .\end{array}$

Q2 Write an algorithm to print Numbers from 50 to 25 in descending order
Step 1: Start
Step 2: no $=50$
step 3: Test if no> 25

$$
\begin{aligned}
& \text { Yes goto } 4 \\
& \text { No goto } 7
\end{aligned}
$$

Step 4 : print no
Step 5:n0 = no -1
Step 6 : goto 3
Step 7: End
output
$50 \quad 49 \quad 48 \quad 47 \quad 46 \quad 45$.......... 25

Q3 Write an algorithm to print all even numbers from 10 to 50
Method I:
Step 1: Start
Step 2: no $=10$
step 3 : Test if no $<=50$
Yes goto 4
No goto 7
Step 4 : print no
step $5: n 0=n o+2$
Step 6 : goto 3
Step 7 : End
output
10.12.14.16, 18 $\qquad$

Method II
Step 1 : Start
Step $2:$ no $=10$
Step 3 : Test if no $<=50$
Yes goto 4
No goto 8
step 4 : Test if no $\% 2==0$
Yes goto 5
No goto 6
step 5 : print no
step $6:$ no $=n o+1$
step 7 : goto 3
step 8 : End
output $10 \quad 12 \quad 14 \quad 16 \ldots \ldots 50$

Python
Assignment no. 6

Q1 Print your full name using print statement.
$\gg$ Fname $=$ "Sayali"
>> mname = " Shrikant"
>) ${ }^{\text {Iname }}=$ " Powar"
$\ggg$ print (fname, mname, Iname)
Sayali Shrikant Powar.

Q2 Store your name to variable name storeaddress to variable address, birth date to variable bdate and display it with print statement.
$\ggg$ name $=$ "Sayali Shrikant Powar"
$\ggg$ address = "AP Akiwat, ta. shirol, dist. kolhapur"
$\gg$ bdate $=$ "3rd april 2002"
>>> print ("Name =", name,
"Inaddress $s$ ", address,
"Inbdate=", bdate)
Name = Sayali Shrikant Powar
address = AP Akiwat, ta. shirol, dist. kolhapur
bdate $=3$ rd april 2002 .

Assignment No. 7

Q1 Write python script to enter 4 sides of quadrilateral and find out perimeter.
>>> $S_{1}=$ input ("enter first side")
enter first side 8
>>> $S_{2}=$ input ("enter second side ")
enter second side 4
27) 53 = input (" enter third side ")
enter third side 10
7)> 54 = input ("enter fourth side")
enter fourth side 6
2)2 peri $=51+52+53+54$
>>) print ("Perimeter of quadrilateral $=$ ", peri )
Perimeter of quadrilateral $=28$

Q2 Write a script to enter item no name quantity and rate calculate net_price.
$\ggg$ item_no $=$ input ("enter item $n 0=$ ")
enter item $n 0=2$
>>> name = raw_input ("enter name of item")
enter name of item pencil
>) quantity = input ("enter quantity of item $=$ ")
enter quantity of item $=15$
sis rate = input ("enter rate of item $=$ ")
enter rate of item $=5$
>>> net_price $=$ quantity $*$ rate
2>> print ("net price $=$ ", net_ price)
net price $=75$

3] Write a script to enter four numbers. Find out sum of $1^{\text {st }}$ two numbers. store it to sum. Find sum of last two numbers store it to sum 2 . Find difference between sums and sum 2.
>) no 1 = input ("enter st no")
enter st no 30
>> $\mathrm{nO}_{2}$ = input ("enter and no")
enter and no 25
2) no $_{3}$ = input ("enter ard no")
enter ard no 40
>) no $_{4}=$ input ("enter 4 th no")
enter 4 th no 50
(7) Sum $1=\mathrm{nO}_{1}+\mathrm{nO}_{2}$
7) Sum $2=$ no 3 + no 4

$$
\gg d=\operatorname{sum} 2-\operatorname{sum} 1
$$

7) print ("difference between", samı,"and", sum 2, "is", d) difference between 55 and 90 is 35

Assignment No 8

Q1 Input any number and check whether number is greater than 100 or not.
>>> no $=\operatorname{int}($ input ("enter any no"))
enter any no 102
>>) if (no $=100$ ):
print (no, "is greater than 100 ")
elf (no< 100 ):
print (no." is less than $100^{\prime \prime}$ )
else:
print (no,"is equal to 100 ")
102 is greater than 100 .

92 Input marks in 3 subjects calculate total and percentage and display grade as follows.
$\Rightarrow>m_{1}=$ int (input ("marks in dst subject $\left.="\right)$ )
marks in 1st subject $=96$
$\gg m_{2}=\operatorname{int}($ input ("marks in 2 nd subject $=$ "))
marks in and subject $=88$
>> $\mathrm{mb}_{3}=\operatorname{int}$ (input (" marks in ard subject $=$ "))
marks in ard subject $=92$

$$
\text { >>)t=} m_{1}+m_{2}+m_{3}
$$

(3) per $=t / 3$
2)7 print ("percentage $=$ ". Per)
percentage $=92.0$
$\gg$ if $($ per $>40)$ :
print ("Grade = pass")
else:
print ("Grade = Fail ")

Grade $=$ pass

Q3 Input number of books and find out discount as follows:
if books $>20$ Discount $=100$ else Discount $=50$.
$\ggg$ books = int (input ("enter no of books")) enter no of books 45
>) if (books >20):

$$
\text { print ("Discount } \left.=100^{\prime \prime}\right)
$$

else:

$$
\text { print ("Discount }=50 ")
$$

Discount $=100$

Assignment No 1

1. What is algorithm? Explain it.
$\rightarrow$ An algorithm is a finite sequence of well defined, computer - implementable instruction
typically ic some a class of problems or to perform a computation

Ar alacrithm is a step by step procedure to solve a given problem.

- The term finite means the the augaritum showed reach and end point and carrot run forever

Icu can find algorithm: every where ir your life, not Just a computer science
2. Winat advarteges and elisadvantages of algorithm
$\rightarrow$ fovertuges of algorithm :-
i) algorithm is a stepwise representation of a Solution to given problem.
2 ) it is easy to understand
3) An algorithm uses a definite procedure 4) Every step in algorithm has its cur logical sourences 36 it is easy to debug.
"By using algorithm, the problem is broken down iris smaller piece ar steps hence it is easy
for programmer to convert it into actual programer

* disaduanteges of algorithms :

1) Algorithm is time consuming
2) Big tasks are difficult to put in Algorithm
3) Difficult to show branching and loopin in algorithm
3. Write features of algorithm.
$\rightarrow$ The features of algorithm They are as following:
1) Precision - a good algorithm must have certain outlined steps. The step shuld be exact enough an not varying.
2) uniqueness - each step taken in the algorith should give a definite result stated by the writer of the algorithm. The results should not fluctuate by any means
3) fesibility - the algorithm should be possible \& Practicable in real life it should not be abstract or 1 maf
a) Input - agood algorithm must be able accept a set of defined input

Assignment $N O-2$.

Q 1. What is a constant? Give five example.
$\rightarrow$ Data values that stay the Same every. time a programe is exacuted are known as Constant.
(..9-1) Algorithum to add 2 nos 100 f 200 .

2)

Algorithm to add 2 nos 50 \& 100 .

3) Algorithm to add 2 inputed values

4) Algorithm to add inputed values
$?+\frac{\square}{?}+?$
$X P+q$

Step 1: Start
step 2 : input $p$
Step 3 : input 9
Step 4: in $R=p+q$
Step 5: Print $R=$

Assignment no- 3 .
Q 1. Write an algorithm to find area and perimeter of rectangle, Length $f$ breadth should be entred by user.
$\rightarrow$ step j: start
Step 2 : Input length
Step 3: Input breadth
Step 4: area $=$ length $\times$ breadth
Step 5: Perimeter $=2 \times($ length + breadth $)$
Step 6 : print area, perimeter
Step 7: End.

Q2. Write an algorithm to find area and perimeter of square

Step 1: Start
Step 2: Input Side
Step 3: area $=$ side $\times$ side
Step a: perimeter $=4 \times$ side
Step 5: Print area \& Perimeter
step 6: End.

Assignment NO 4.

Q1. Write an algorithm to centre any number and check Whether the number is greater than 10 or not.

Step 1 : Start
Step 2 : Input number 10
step 3 : If number $>=10$
YES Got 4
No Got 6
Step 4 : Print "No is greater than of equal to 10 "
Step 5: Goto end
Step 6: Print No is less than 10
Step 7: End

Q2. Write an degorithm to entre a year in numeric form \& check the inputed year is leap year or not
step 1: start
Step 2: Input year
Step 3: If year $\%, 4==0$
yes goto 4
No goto 6
Step 4:int"year is leap"
Step 5 : soto end

Assignment No - 5
Q 1. Write an algorithum to print number from 1 to 80
$\rightarrow$ Step 1: start
step 2: no $=1$
step 3: Test if no $<=80$
yes soto 4
No soto 7
step a: print no $=$ not
ster 6: soto 3
Step 7: End.

Q2) Write an algorithm to print number from 50 to 25 in descending order
$\rightarrow$ step 1: start
Step 2: Te no $=50$
Step 3: Test in number $>=25$
yes soto 4
No soto 7
step $4: n 0=$ no -1 Print NO
Step $S$ : goto $3 \quad$ no $=$ no- 1
step 6: soto 3
Step 7 : End
python assignment No - 1

Q 1) Print your full name using print statement
$\gg$ frame $=$ ("shubham"
$\gg$ name =" shashikant"
$\Rightarrow>$ name : "More"
$\gg$ Print = (frame, mname, Iname)
Shubham shushikant kore.

Q 2) Store your name to variable name, store address, to variable address, birth date. to variable blate $f$ display it with print statement.
$\rightarrow$
$\Rightarrow$ name $=$ "Shubham"kore"
$\Rightarrow$ address = "A.P kasaba sangaon, tail- kay dist kolnapur"

$$
\Rightarrow \text { bate }=11^{\text {th }} \text { Sully } 2002
$$

$\gg$ Print (name, address, bare)
python assignment No - 1

Q 1) Peint your full name using print statement
$\gg$ fname $=$ C"shubham"
$\gg$ mname $=$ " shashikant"
$\rightarrow>$ Iname = "Kore"
$\gg$ Print = (fname, mname, iname)
Shubham shashikant kore.

Q 2) Store your name to variable name, store addres to variable dddress, birth date to variable belate $\&$ display it with Print statement.
$\rightarrow$
$\Rightarrow$ name = "Shubham"kore"
$\Rightarrow$ address $=$ "A.P kasaba sangaon, tal- kay dist kolhapur"

$$
\Rightarrow \text { bdate }=11^{\text {th }} \text { Jully } 2002
$$

$\gg$ Print (name, address, bdare)

$$
\text { pythons assignment }-2 \text {. }
$$

Q 1. Write python script to enter 4 sides of quadrilateral of find out perimeter
$\rightarrow \quad \gg s_{1}=\operatorname{int}\left(\right.$ input ("Enter $1^{s t}$ side" $)$ )
Enter $1^{\text {st }}$ side 8
》) $S_{2}=\operatorname{int}\left(\right.$ input ("Enter $2^{\text {nd }}$ side")) Enter $2^{\text {nd }}$ side 4
$\Rightarrow s_{3}=\operatorname{int}\left(\right.$ input ("Enter $3^{\text {rd }}$ Side $\left.{ }^{\prime \prime}\right)$ ) Enter $3^{\text {rd }}$ side 6
》) $S_{4}=\operatorname{int}$ (input ("Enter $y_{1}^{\text {th }}$ side")) Enter $4^{\text {th }}$ side 5
d)) Print ("Perimeter of quadrilateral':

$$
51+52+53+54)
$$

Perimeter of quadrilateral $=23$

Q2. Write script to enter item, no, name, qty
Rate, calculate net price.
$\rightarrow \quad \gg I=\operatorname{int}$ ("input item no")
$\gg I=\cdot \operatorname{int}($ input ("Enter item no"))
Enter item no. 7
$\Rightarrow N=$ int (input ("Enter name of item") Enter Name of item bulb"
>) $a$ = int (input ("Enter quantity") Enter quantity 10
$\Rightarrow R=$ int (input ("Enter Rate") Enter Rate 30
python assignment 3 .

1. Input any number and check whether name is greater then 100 or not
$\rightarrow \quad \gg x=$ int (input ("Enter number"))
Enter number 98
$\Rightarrow$ if $(x>100)$ :
Print $\left(x\right.$, "is greater than $\left.100^{\prime \prime}\right)$
elif $(x<100)$ :
Print ( $x, "$ is not greater than $100^{\prime \prime}$ ) elf

Print ( $x, "$ is $100^{\prime \prime}$ )
98 is not greater than 100
2. Input marks in 3 subject Calculate tot and percentage \& display grades as foll
if per $<40$ Grade - "1 " if Per < 40 Grade = "fAlL" else Grade: "PASS"

Enter marks in ${ }^{\text {st }}$ subject 40
$>m_{2}$ = int (input ("Enter marks in $2^{n d}$
Enter marks in $2^{\text {nd }}$ subject 70
Q. 1 What is algorithm? Explain it.
$\Rightarrow$ An algorithm is a finite sequence of well-defined, computerimplementable instructions, typically to solve a class of problems or to perform a computation.

The term finite means that the algorithm should reach an end point and cannot run forever.

An algorithm is a step by step procedure to solve a given problem
eg. The process to make a sandwich.
Q. 2 Write advantage and disadvantage of algorithm.
$\Rightarrow$ Advantage of algorithm -

1. It is step wise representation of a solution to given problem., which makes it easy to understand.
2. An algorithm uses a definite procedure
3. It is not dependent on any programming language so it is easy to understand for anyone even without any programing language.
4. Every step in algorithm has its own logical sequence so it is easy to debug.
5. By using algorithm, the problem is broken down into smaller pieces or steps hence, it is easir for programmer to convert it into actual programmer.

Disadvantages of algorithm -

1. Algorithm is time consuming.
2. Difficult to show branching and 100 ping in algorithm.
3. Big tasks are difficult to put in algorithms.

Q3. Write features of algorithm
$\Rightarrow$ The following are the features of a good algorithm.

1) Precision - a good algorithm must have a certain outlined steps. The steps should be exact enough \& not varying.
2. Uniqueness - each step taken in the algorithm should give a definite result as stated by the writer of the algorithm. The result should not fluctuate by any means.
3. Feasibility - the algorithm should be posible \& practicable in real life. It should not be abstract or imaginary.
4. Input - a good algorithm must be able to accept a set of defined input.
5. output - a good algorithm should be able to produce result as output, preferably solutions.
6. Finiteness - the algorithm should have a stop after a certain number of instructions.
7. Generality - the algorithm must apply to a set of defined inputs.
$\qquad$
Q. 4 Write an algorithm to make a pizza.
$\Rightarrow$ algorithm to make a pizza-
step 1 - start
step 2 - Take the dough out \& roll it into a circle.
step 3 - Puff out the edge of the dough so the crust is thicker at the edge.
step 4 - Pre-heat oven to $250-260^{\circ} \mathrm{C}$
Step 5 - Put on the pizza sauce cheese, \& toppings
step 6 - Put the pizza on the pizza stone in the oven.
step 7 - Bake for 30 minutes or until pizza is crispy \& golden brown.
step 8 - Eat it !
Step 9 - End.

Assignment -2

Q1. What is constant? Give five examples.
$\Rightarrow$ Data values that stay the same every time a program is executed are known as constant. Constants are not expected to change.

In computer programming, a constant is a value that cannot be altered by the program during normal execution.
eg., 1. The data value "hello world" has been fixed into the code.
2. The unit of gravity
3. The value of $\pi$
4. The amount of time allowed for a level in a game.
5. Suppose addition of two no.s i.e addition of 20 \& 40 in this the nos 20 \& 40 are the constant.
Q. 2 What is variable? Give trio examples.
$\Rightarrow$ Variables are data values that can change when the user is asked a question, Variable may change during program execution.

A variable is a memory location. It has a name that is associated with that location. The memory loction is used to hold data
eg., 1. The 'age'
2. 'marks' would need to be varriable to change throughout a year.
3. The salary goes on changing
Q. 3 Write an algorithm to print multiplication of 4 nos. 5,10,20,30
$\Rightarrow$ Step 1 - Start
Step $2-$ not $=5$
Step $3-\mathrm{nO}_{2}=10$
Step $4-n 03=20$
Step $5-$ no $4=30$
step 6 - ans $=5^{*} 10^{*} 20^{*} 30$
Step 7 - Print ans
step 8 - End

Output - 30.000
Q. 4 Write an algorithm to print multiplication of 3 nos. inputted by user.
$\Rightarrow$ Algorithm to print multiplication of 3 nos. inputted by user.
Step 1 -start
step 2 - Input not, no 2, no 3
step 3-ans = no* no 2 * no 3
step 4 - Print ans
step 5 - End
If input $5,15,20$
output is 1500
If input is $27,18,9$
output is 4374

Assignment-3
Q. 1 Write an algorithm to find area \& perimeter of rectangle. Length \& breadth should be entered by user.
$\Rightarrow$ Algorithm to calculate area \& perimeter of rectangle imputed by user.
step 1 - start
Step 2 - input length, breadth
Step 3 - area $=$ length $*$ breadth
Step 4 -perimeter $=2$ (length + breadth $)$
Step 5 -print area, perimeter
Step 6 - End.
If input is $\lambda=38, b=12$
then output area $=456$ \& perimeter $=100$
If input is $l=23, b=11$
then output area $=253$ \& perimeter $=68$
Q. 2 Write an algorithm to find area and perimeter of square.
$\Rightarrow$ Algorithm to find area and perimeter of squire.
Step 1 -start
Step 2- Input side
step 3- Area = side * side
step 4 - Perimeter $=4^{*}$ side
step 5-Print area, perimeter
Step 6 - End

Assignment 4

Q1 Write an algorithm to enter any number and check wheather the number is greater then 10 or not (eg Input 2 output "No. is not greater than 10")
$\Rightarrow$ step 1: start
Step 2: input no
Step 3: if number $>=10$
yes goto 4
No goto 6
Step 4: Print "N ois greater equal to 10 "
step 5: goto end
step 6: Print "No is smaller than 10 "
step 7: end
input no $=12$
output - 12 is greater than 10 .
Q. 2 Write an algorithm to enter a year in numeric form \& check the inputted year is leap year or not.
$\Rightarrow$ step 1: start
Step 2: Input year
step 3: If year $\% 4=0$
yes goto 4 no goto 6
step 4: Print "leap year"
step 5: Goto end
Step 6: Print "year is not leap"
step 7: end.
Input: 2021 Output: year is not leap.

Assignment - 5

Q1 Write an algorithm to print number from 1 to 80
$\Rightarrow$ step 1: start
step 2: no =1
step 3: Test if no $<80$
yes goto 4
no goto 7
Step 4 : Print no
Step 5: no $=$ no 1 1
step 6: goto 3
step 7 : end
Input: $1,2,3, \cdots 80$.
Q.2 Write an algorithm to print no. from 50 to 25 decresing order.
$\Rightarrow$ step 1: start
step 2: no $=50$
step 3: test if no> $=25$
yes goto 4
no goto 7
step 4: print no
step 5: no $=$ no-1
step 6: goto 3
step 7: end
Output: $50,49,48, \cdots, 25$.

Assignment-6
Q. 1 Print your full name using print statment.

$$
\begin{aligned}
\Rightarrow & \gg \text { fname = "Gayatri" } \\
& \gg \text { mname = "Ananda" } \\
& \ggg \text { Iname = "Patil" }
\end{aligned}
$$

$\ggg$ Print (fname, mname, lname)
Gayatri Ananda Patil
Q.2. Store your name to variable name store address birthdate to variable bdate display it with print statment
$\Longrightarrow \ggg$ name = " Gayatri Patil"
$\gg$ address = "Bapuram Nagar Kalamba Road, kolhap
$\gg$ bdate $=" 27-6-2002$ "
$\ggg$ print ("Name:-", name,
"In Address:-", address,
"in Birtholate:-", bdate)
output
Name :- Gayatri Patil.
Address:- Bapuram Nagar kalamba Road. Kolhapur. Birthdate:-27-6-2002

Assignment -7
Q. 1 Write Python script to enter 4 sides of quadrilateral \& find out perimeter.
$\Rightarrow \quad \gg s_{i}=\operatorname{int}$ (input ("enter $1^{\text {st }}$ side " $)$ )
enter $j^{\text {st }}$ side 8
$\gg S_{2}=\operatorname{int}$ (input ("enter $2^{\text {nd }}$ side " $)$ )
enter $2^{\text {nd }}$ side 4
$\gg S_{3}=\operatorname{int}\left(\right.$ input( "enter $3^{\text {rd }}$ side" $)$ )
enter $3^{\text {rd }}$ side 3
$\ggg S_{4}=\operatorname{int}\left(\right.$ input $\left(\right.$ "enter $4^{\text {th }}$ side " $)$ )
enter $4^{\text {th }}$ side 6
$\gg$ Print ("Perimeter of quadrilateral $=$ ", $s_{1}+s_{2}+s_{3}+s_{4}$ ) perimeter of quadrilateral $=21$
Q.2. Write script to enter item-no, name, qty \& rate, cal net price
$\Rightarrow \gg I=\operatorname{int}$ (input ("enter item -no"))
enter item no. 2
$\gg N=\operatorname{int}$ (input ("enter name of item ")) enter name of item Notebook
$\gg Q$ = int (input ("enter quantity"))
enter quantity 4
$\ggg R=\operatorname{int}$ (input ("enter rate of item")
enter rate of item 35
$\ggg$ Print ("Net price=", Q*R)
Net price $=140$

Assignment -8

Q 1 Input any no. \& check weather no. is greater than 100 or not.
$\Rightarrow \ggg x=\operatorname{int}$ (input ("enter no ${ }^{\prime \prime}$ ))
enter no $=98$
$\ggg$ if $(x>100)$
print ( $x, "$ is greater than $100^{\prime \prime}$ )
if $(x<100)$
print ( $x$ " is not greater than $100^{\prime \prime}$ )
else $x=100$
print ( $x, "$ is $100^{\prime \prime}$ )
98 is not greater than 100.
Q2. Input markers in 3 subject cal. total \& percentage \& display grade as follows.-
IF per $<40$ Grade = "FAIL" else Grade = "Pass"
$\Rightarrow \gg M 1=\operatorname{int}$ (input ("enter marks in $j^{\text {st }}$ subject")) enter marks in $1^{\text {st }}$ subject 80
$\gg M_{2}=$ int (input ("enter marks in $2^{\text {nd }}$ subject " $j$ ) enter marks in $2^{\text {nd }}$ subject 90
$\gg M_{3}=$ int (input ("enter marks in $3^{\text {rd }}$ subject"))
enter marks in $3^{\text {rd }}$ subject 85

$$
\begin{aligned}
& \ggg \text { print }\left(" \text { Total }=", M_{1}+M_{2}+M_{3}\right) \\
& \text { Total }=25.5 \\
& \ggg \text { print }\left(\text { "percentage }="\left(M_{1}+M_{2}+M_{3}\right) / 3\right) \\
& \text { percentage }=85 \% \\
& \ggg \text { if }(\text { per centage }<40) \\
& \text { print }(\text { "Grade }=F A I L ") \\
& \text { else (percentage }>=40) \\
& \text { print }(\text { "Grade }=\text { Pass" }) \\
& \text { Grade }=\text { Pass }
\end{aligned}
$$


[^0]:    -Though put

