Assignment Questions 29th January by *Ashish Singh*

1.Who developed Python Programming Language?

Ans). *Guido van Rossum*

2. Which type of Programming does Python support?

Ans). *Object-oriented programming and structured programming*

3. Is Python case sensitive when dealing with identifiers?

Ans). *Yes*

4. What is the correct extension of the Python file?

Ans). *.py or .pyi*

5. Is Python code compiled or interpreted?

Ans). *Python is interpreted*

6. Name a few blocks of code used to define in Python language?

Ans). *Module, function body, and class definition*

7. State a character used to give single-line comments in Python?

Ans). *#*

8. Mention functions which can help us to find the version of python that we are currently working on?

Ans). *sys. Version method, python_version() function, Python -V command.*

9. Python supports the creation of anonymous functions at runtime, using a construct called

Ans). *lambda function (λ)*

10. What does pip stand for python?

Ans). *pip stands for "preferred installer program".*

11. Mention a few built-in functions in python?

Ans). *print( ) function, type( ) function, input( ) function, abs( ) function, pow( ) function, dir( ) function, sorted( ) function, max( ) function.*

12. What is the maximum possible length of an identifier in Python?

Ans). *An identifier can have a maximum length of 79 characters in Python.*

13. What are the benefits of using Python?

Ans). *Python programming language is beneficial as it is a general-purpose, interpreted, and high-level language that mainly offers code readability.*

14. How is memory managed in Python?

Ans). *Memory management in Python involves a private heap containing all Python objects and data structures.*

15. How to install Python on Windows and set path variables?

Ans). *The below steps can be followed to install Python on Windows machine,*

1. *Open a browser to the Python website and download the Windows installer.*
2. *Double click on the downloaded file and install Python for all users, and ensure that Python is added to your path. Click on Install now to begin.*
3. *After the installation is complete, click Disable path length limit and then Close. Disabling the path length limit means we can use more than 260 characters in a file path.*
4. *Click Close to end the installation.*

The path variables are supposed to be added during the installation if during running error comes in, The following steps can be used to set the Python path variables,

I. *Right-clicking This PC and going to Properties*
II. *Clicking on the Advanced system settings in the menu on the left.*
III. *Clicking on the Environment Variables button on the bottom right.*
IV. *In the System variables section, selecting the Path variable and clicking on Edit.*
V. *The next screen will show all the directories that are currently a part of the PATH variable.*

VI. *Clicking on New and entering Python's install directory.*

16. Is indentation required in python?

Ans). *The indentation in Python is very important. Python uses indentation to indicate a block of code.*