**Assignment**

**Date:29th jan 2023**

**Name – Akash Roy**

Q1.Who developed python programming language?

Ans: [Guido van Rossum](https://www.google.com/search?rlz=1C1VDKB_enIN1016IN1016&q=Guido+van+Rossum&stick=H4sIAAAAAAAAAONgVuLUz9U3MMwwME1-xGjCLfDyxz1hKe1Ja05eY1Tl4grOyC93zSvJLKkUEudig7J4pbi5ELp4FrEKuJdmpuQrlCXmKQTlFxeX5gIACMWaE1cAAAA&sa=X&ved=2ahUKEwjx6_DnoYD9AhXVSWwGHZIxCK4QzIcDKAB6BAgMEAE) developed python programming language.

Q2. Which type of programming does python support?

Ans: Structured programming and Object-Oriented programming supports in python.

Q3. Is python case sensitive when dealing with identifiers?

Ans: Yes, python case sensitive when dealing with identifiers.

Q4. What is the correct extension of python file?

Ans: .py is the correct extension of python file.

Q5. Is python code is compiled or interpreted?

Ans: Python is an interpreted language because code of python program is converted into bytecode and then it is executed by python virtual machine.

Q6. Name few blocks of code used to define python programming language?

Ans: Class definition , a module and function body are the few blocks of code used to define a python programming language.

Q7. State a character which is used to give single line comment in python?

Ans: “ # ” character which is used to give single line comment in python?

Q8 . Mention function which can help us to find the version of version of python that we are currently working on?

Ans: sys.version

Q9. Python supports creation of anonymous function at a runtime using a construct called Lambda.

Q10. What does pip stands for python?

Ans: PIP stands for Preferred Installer Program . pip is used for downloading the extensions of pyhon in computer.

Q11. Mention a few built in function in python?

Ans: print()

Len()

Type()

Pow()

The above are the few built in function in python.

Q12. What is the maximum possible length of an identifier in python?

Ans: 79 characters

Q13. What are the benefits of using python ?

Ans: Python is a very easy and understandable programming language. It has very easy syntax as compared to other programming languages. This language has a wide uses. It is used in data science, web development, computer graphics, finance and trading , mathematical computation.

Q14. How memory is managed in python?

Ans: Memory in python is managed by private heap.

Q15. How to install python on window and set path variable?

1. Right-clicking This PC and going to Properties.
2. Clicking on the Advanced system settings in the menu on the left.
3. Clicking on the Environment Variables button o​n the bottom right.
4. In the System variables section, selecting the Path variable and clicking on Edit. The next screen will show all the directories that are currently a part of the PATH variable.
5. Clicking on New and entering Python’s install directory.

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Q16. Is indentation is required in python?

Ans: yes, indentation is required in pyhton.