**Assignment 1 - 29th Jan 2023**

Q1. Who developed python programming language?

Ans. Guido van Rossum developed the python programming language.

Q2. Which type of programming does python support?

Ans. Python support both Object Oriented Programming and Structured Programming.

Q3. Is python case sensitive when dealing with identifiers?

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

Q4. What is the correct extension of the python file?

Ans. (.py) is the correct extension.

Q5. Is python code compiled or interpreted?

Ans. Python is interpreted language.

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

Ans. Indentation and Braces {} used to define blocks of code in python. Some blocks of code can be For Loop, While Loop, If-else block , functions, classes etc.

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

Ans. # or ## can be used to give single line comment in python.

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

Ans. Using sys.version and python\_version() .

Q9. Python support the the creation of anonymous functions at runtime using construct called?

Ans. Lambda

Q10. What does pip stand for?

Ans. Preferred Installer Program.

Q11. Mention some built in function in python.

Ans. Print(), Input(), len(), int(), list(), str(), range(), reversed(), type(), sorted() etc.

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

Ans. 79 characters

Q13. What are the benefits of using python?

Ans. 1. Easily readable

1. Highly understandable.
2. Open source
3. Large community
4. Numerous libraries

Q14. How is memory managed in python?

Ans. Python has a Python manager which decides where to put the program data in the private heap (memory block) allocated . Garbage collection is also incorporated in python to clean up the unused memory.

Q15. How to install python on windows and set environment variable.

Ans. 1. Go to this link <https://www.python.org/downloads/>

1. Download and install the python.
2. Right-clicking This PC and going to Properties.
3. Clicking on the Advanced system settings in the menu on the left.
4. Clicking on the Environment Variables button o​n the bottom right.
5. 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.
6. Clicking on New and entering Python’s install directory.

Q16. Is indentation is required in python?

Ans. Indentation is mandatory in python to define the blocks of statements.