**Assignment-1**

**1**- Python programming language is developed by **Guido van Rossum.**

**2-**Python supports **object oriented and structured programming.**

**3- Yes** Python is case sensitive when dealing with identifiers.

**4-** correct extension of python file is **.py, .pyi, .pyc, .pyd, .pyo, .pyw, and .pyz.**

**5-Yes,** python code compiled or interpreted.

**6-** Few blocks of code used in python is **a module, a function body, and a class definition.**

**7-** For single line comment in python we use **#** .

**8-** Using **python\_version()** function.

**9-** Python supports the creation of anonymous functions at runtime using  **a construct called "lambda"**

**10-** pip stands for "**preferred installer program**".

**11-** Built in function in python is **len(), type().**

**12-** Maximum possible length of an identifier in python is **79 characters.**

**13- Benefit of using python is-**

In Data science

In automation

In web development

In finance

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

**15- how to install python on window and set path variable-**

1. Install python from this link <https://www.python.org/downloads/> install it on your PC.
2. Look for the location where PYTHON has been installed on your PC using tge following command on your command prompt: cmd python.
3. Then go to advanced system settings and add new variable and name it as PYTHON\_NAME and paste the copied path.Then look for the path variable, select it's value and select edit Add a semicolon towards the end the value if it's not present and then type %PYTHON\_HOME% .

**16 -Yes**, indentation required in python.