Assignment – 1 Date- 29th January

**1. Who developed Python Programming Language?**

Guido van Rossum

**2. Which type of Programming does Python support?**

It supports object-oriented, structured, and functional programming.

**3. Is Python case sensitive when dealing with identifiers?**

Yes, Python is a case-sensitive language

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

The correct extension is .py

**5. Is Python code compiled or interpreted?**

It is interpreted

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

If-else , if-elif , try -except

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

# Is used to define single line comment in python.

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

Using sys. version method and python\_version() function.

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

Lambda

**10. What does pip stand for python?**

Preferred installer Program

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

Print(),Bool(),set() and type()

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

79 Characters

**13. What are the benefits of using Python?**

Data science, Scientific and mathematical computing, Web development, Finance and trading, System automation and administration. Computer graphics, Basic game development. Security and penetration testing.

**14. How is memory managed in Python?**

Memory management in Python involves a private heap containing all Python objects and data structures. The management of this private heap is ensured internally by the Python memory manager.

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

In the section entitled User Variables, double-click on the entry that says Path. Another window will pop up showing a list of paths. Click the New button and paste the path to your Python executable there. Once that's inserted, select your newly added path and click the Move Up button until it's at the top.

**16. Is indentation required in python?**

Yes