Assignment

1. Who developed the python programming language?

Ans: Guido Van Rossum developed python programming language.

2. Which type of programming does python support?

Ans: python supports object oriented programming and structured programming.

3. Is python case sensitive when dealing with identifiers?

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

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

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

5. Is python code compiled or interpreted?

Ans: Yes python code compiled or interpreted.

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

Ans: n = int(input("Enter a number: "))

        for i in n:

          For j in (i+1):

            print("*")

        print("\r")

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

Ans: In python, the # character is used to start a comment.

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

Ans: The function sys.version can help us to find the version of python that we are currently working on.

9. Python support the creation of anonymous function at runtime, using a construct called _____

Ans: Python supports the creation of anonymous functions at runtime, using a construct called "Lambda".

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**
- **round() function**
- **divmod() function**
- **id() function**
- **ord() function**
- **len() function**
- **sum() function**
- **help() 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:

- **Simple to use and understand**
- **Free and open source**
- **Productivity has increased**
- **Interpreted language**
- **Extensive library**
- **Dynamically typed**
- **Portability**
- **Supportive community**

14. How is memory managed in python?

Ans: memory in python is managed by python private heap space. All python objects and data structures are located in a private heap. The private heap is taken care of by the python interpreter itself, and a programmer doesn't have access to this private heap.

15. How to install python on windows and set path variables?

Ans: Install python from the link https://www.python.org/downloads/ . After this, install it on your PC. Look for the location where PYTHON has been installed on your PC using the following command on your command prompt: cmd python.

Then as PYTHON_NAME and paste the copied path.

Then look for the path variable, select its value and select edit add a semicolon towards the end of the value if it's not present and type %PYTHON_HOME%.