29th Jan Python Assignment

1. Who developed Python Programming Language?
Ans :- Python programming language was developed By Guido van Rossum

2. Which Type of programming does python support?
Ans :- Python supports Object-oriented, functional and procedural programming

3. Is Python case sensitive in dealing with identifiers?
Ans :- Yes Python is case sensitive when it comes to dealing with identifiers
    Example : 'Add' is different from 'add'

4. What is the correct extension of the python file?
Ans :- .py, .pyc and .pyd

5. Is Python Code Compiled or Interpreted?
Ans :- Its Interpreted Language

6. Name a few blocks of code used to define a python language?
Ans:-   lis = [1,2,3,4]
        for i in lis:
            print(i)

7. State a character used to give single line comments in python?
Ans :- #

8. Mention functions which can help us to find the version of python that we are currently working on?
Ans :- sys.version(), sys.version_info()

9. Python supports the creation of anonymous functions at runtime using a construct called _____?
Ans :- Lambda

10. What does pip Stand for in Python?
Ans:- Package installer for python

11. Mention Few In-built functions in python?
Ans :- print()
        max()
        min()

12. What is the maximum possible length of an identifier in python?
Ans :- There is no practical Length

13. What are the benefits of using python?
Ans:- 1. Less code   3. Easy to use ..etc
        2. More Packages

14. How is memory managed in python?

Ans :- The Python memory manager and garbage collector are integrated into the Python runtime, and they work together to provide a convenient and efficient way to manage memory in Python. As a Python programmer, you do not need to manually allocate or deallocate memory, as this is handled automatically by the memory manager and garbage collector.

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

Ans :- Here are the steps to install Python on Windows and set the path variables:

1. Download the Python installer from the official Python website (https://www.python.org/downloads/).
2. Run the installer and follow the prompts to complete the installation process. Make sure to select the option to add Python to the PATH environment variable during the installation.
3. Open the Command Prompt (cmd.exe) and run the following command to verify that Python is installed

`python --version`

To set the path variables, follow these steps:
a. Press Windows key + X and select System.
b. Click on "Advanced system settings".
c. Go to the "Advanced" tab and click on the "Environment Variables" button.
d. Under System Variables, scroll down and find the "Path" variable.
e. Click on "Edit" and then "New" and add the path to the Python installation (e.g., C:\Python3x).

4. f. Restart the Command Prompt and run the `python --version` command to verify that the path variable has been set correctly.

Now, you should be able to run Python from the Command Prompt on Windows.

16. Is Indentation required in python?

Ans :- Yes Indentation act as a block of code in python