1. Who developed Python Programming Language ?

Ans - Guido van Rossum

2. Which type of programming does Python support ?

Ans - Object Oriented & Structured Programming

3. Is Python case sensitive while dealing with identifiers ?

Ans - Yes.

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

Ans - .py

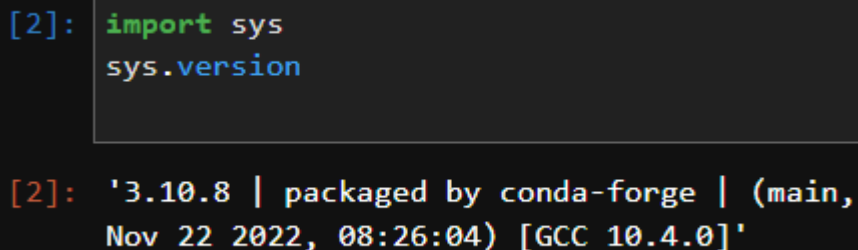5. Is Python code compiled or interpreted ?

Ans - Interpreted

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

Ans - module, function body, class definition, script file

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

Ans - # or ##

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

```
[2]: import sys
     sys.version

[2]: '3.10.8 | packaged by conda-forge | (main,
     Nov 22 2022, 08:26:04) [GCC 10.4.0]'
```

Ans -

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

Ans - Lambda

10. What does pip stand for python ?

Ans - pip stands for "preferred installer program" . pip is the standard package manager for python. It allows you to install and manage additional packages that aren't a part of the Python Standard Library.

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

Ans - len(), print(), type(), upper(), lower(), title(), capitalize(), count(), find()

12. What are the benefits of using Python ?

Ans -   i) Easy to learn, simple syntax

ii) Community support

iii) Widely used across different domains like data science, web development, scripting, finance & trading etc.

iv) It is also widely used for game development, VR, mobile & desktop applications.

v) It is extensible. You can extend python to other languages like C,C++,C# etc.

vi) Huge library support

13. How is memory managed in Python ?

Ans- Memory management in python involves a private heap containing all python objects and data structures. The management of this private heap is done by python memory manager. It has different components for dynamic storage management like sharing, segmentation, preallocation, caching.

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

Ans - Install python from www.python.org/downloads. Install the exe on your computer.

The complete path of python.exe can be added as path variable using the following :

- Right-clicking This PC and going to Properties.

- Clicking on the Advanced system settings in the menu on the left.

- Clicking on the Environment Variables button on the bottom right.

- 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.

- Clicking on New and entering Python's install directory.

15. Is indentation required in python ?

Ans - Yes.