

## **Day1 - Data Science Master Class Assignment**

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1) Who developed Python programming Language?

Ans: Guido van Rossum

2) Which type of Programming does python support?

Ans: Both Strongly typed and Dynamic type

3) Python case sensitive 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:

- Reed-Solomon codes.
- Hamming codes.
- Expander codes.
- Golay codes.
- Hadamard codes.
- Reed-Muller codes.

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

Ans: Hash Character (#)

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

Ans: sys. version

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

Ans: lambda

10) What does pip stand for python?

Ans: preferred installer program

11)Mention the few built-in functions in Python?

Ans:

- print ()
- type ()
- input ()
- abs ()
- pow ()
- max ()
- min ()

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

Ans: 79 characters

13) What are the benefits of using Python?

Ans:

- 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?

Ans: Python memory managed is using **Python private heap space**

15) How to install Python in windows and set path variables?

Ans: The complete path of **python.exe** can be added by:

1. Right-clicking *This PC* and going to *Properties*.
2. Clicking on the *Advanced system settings* in the menu on the left.
3. Clicking on the *Environment Variables* button on the bottom right.
4. 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.
5. Clicking on *New* and entering Python's install directory.

Python can now be used directly from the command prompt without having to write its location. Try executing the command **python --version**; it will output the version of Python installed on your system.

Usually, you can find the python installed binary in this path location: **C:\Users\Educative\AppData\Local\Programs\Python\Python39**



```
Command Prompt X
C:\>python --version
Python 3.7.5
```

16) Is indentation required in Python?

Ans: Yes

