

## Assignment 1

1. Guido van Rossum developed python programming language.
2. Python is a multi-paradigm programming language. It supports object-oriented programming and procedural programming as well.
3. Yes, python is a case sensitive when dealing with identifiers.
4. The correct extension of the python file is “.py”.
5. Python code is interpreted.
6. Function, module and class are some example of code blocks used in python.
7. # is used to give single line comments in python.
8. We can use python\_version() function from sys module can help us to find the version of python we are currently working on.
9. Python supports the creation of anonymous functions at runtime, using a construct called lambda.
10. Pip stands for preferred installer program for python.
11. Some built-in functions in python are type (), dict(), input(), int(), float(), etc.
12. 79 characters is the maximum possible length of an identifier in python.
13. Python has a large number of modules and libraries, interpreted language, user-friendly, a smaller number of lines of code compared to others, and it is also a dynamically typed language.
14. Memory management in Python involves a private heap containing all Python objects and data structures.
15. We can install python on windows and set path variables by following steps:
  - a. First go to the official site of python <https://www.python.org/>
  - b. Then take the cursor on downloads from navigation bar and a dialog box will appear.
  - c. From the dialog box click on windows.
  - d. Select the appropriate version of python according to your system architecture and download it.
  - e. After downloading click on install.
  - f. Now, check the checkbox labeled “Add python.exe to PATH” and click on install now.
  - g. And now give the permissions, it will take some time.
  - h. At last, click on close, now our python is installed in windows and environment variable is set.
16. Indentation is very important in python. Code blocks in python are indicated using indentation. Indentation also improves code readability.