



Chapter - 03

Brief Overview of Python

* Basics of Programming and Introduction to Python

An ordered set of instruction/commands to be executed by a computer is called as a Program, and the language used to specify those sets of instructions is called as a Programming Language.

In our syllabus, we need to work with Python. Other examples are C, C++, Java, etc.

- Python is a very popular programming language because it is
 - > fast and efficient.
 - > easy syntax.
 - > readable and can be easily understood.
 - > time saving.
- Uses of Python :-
 - > Software Development
 - > Web Development.
 - > Data Management.
 - > Data Analysis.
 - > Data Visualization.
 - > Machine Learning
 - > Artificial Intelligence.



* Python Interpreter and more

Computer is not an emotional machine so it cannot understand English or Hindi. So in order to get the code or program understood by computer, we need to get it translated into machine code (Byte Code) in order to get it executed.

Here we need a tool known as an Interpreter for one-to-one translation.

Python Interpreter is known as **PYTHON SHELL**.

An interpreter is a tool used for one-to-one translation of user-friendly code into machine code. It converts line-by-line into it.

Execution Modes

Interactive Mode

- Code can be written & executed directly on prompt.
- Code is written on Interpreter directly.

Script Mode

- A new file is to be created and the execution is done.
- Code is written on IDLE.



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- Code cannot be saved for future.

- Code can be saved and used in future.