

LANGUAGE

A medium which used to communicate.

TYPES OF LANGUAGE

- i. Natural Language
- ii. Formal Language

NATURAL LANGUAGE

- i. Language which is spoken very casually.
- ii. They are not designed by people.
- iii. They evolved naturally.
- iv. Ex – English, Spanish, French etc.

FORMAL LANGUAGE

- i. Languages which are used very formally.
- ii. They are designed by people for specific applications.
- iii. These languages tend to have strict syntax rules.
- iv. Ex – Programming languages (C, C++, Python, Java, etc.)

PROGRAMMING LANGUAGE

They are formal languages that have been designed to express computation.

PROBLEM SOLVING

The ability to –

- i. Formulate problems.
- ii. Think creatively about solutions.
- iii. Express the solution clearly and accurately.

PROGRAM

It is a sequence of instructions that specifies how to perform a computation.

COMPILER

- i. It is translator which transforms source language into object language.
- ii. It converts the whole program in one go.

INTERPRETER

- i. It is a program written in a source language.
- ii. It converts the program by taking a single line at a time.

PYTHON INTERPRETER

It is a program that reads and executes PYTHON CODE.

WAY OF WRITING CODE

Python support two ways of writing 'Python Code' –

- i. Interactive Mode
- ii. Script Mode

INTERACTIVE MODE –

User interact with interpreter directly.

SCRIPT MODE –

User save the code in a file (or script) and then interpreter execute the whole script.