

## Introduction to Python-I

### Session Objectives

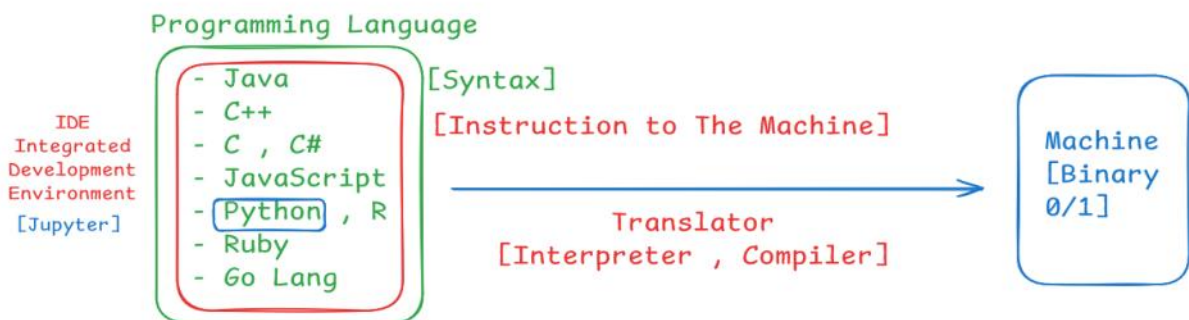
- Understand what Python is
- Explore what Python can do
- Discover Python's features
- Compare Python with other programming languages
- Understand how Python differs from Excel and SQL
- Learn Python's role in Data Science
- Install Python and Anaconda (Jupyter Notebook)

What is Programming Language?

Person A [Speaks French] Translator  
Person B [Speaks Hindi]

Mode of Communication to express thoughts.

A communication between 2 persons on a common ground...



### Bhai Lang - Toy Programming

```
hi bhai
bol bhai "Hello World";

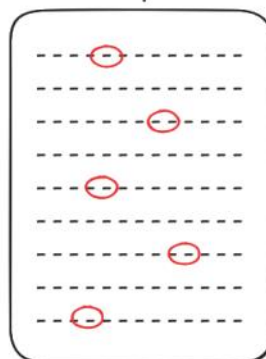
bhai ye hai a = 3;
bhai ye hai b = 0;

jab tak bhai (b < 5) {
    bol bhai b;

    agar bhai (b == a) {
        bol bhai "b is equal to a";
    } nahi to bhai (b == 0) {
        bol bhai "b is equal to zero";
    }
}

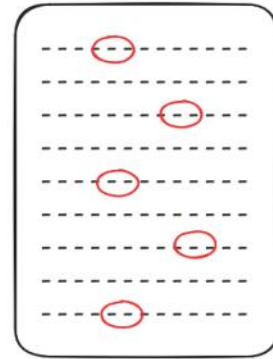
b += 1;
}
```

### Interpreter



[Line By Line Error]

### Compiler [Full Scan]



Line1 : Error....  
Line3 : Error....  
Line5 : Error....  
Line7 : Error....  
Line9 : Error....

Set of Instruction...

Pseudo-code [Step By Step Process]

How to make a Maggie 🍲🍲

Step 1 : Buy a Maggie , Buy a Stove/Pan , Have a Gas Pipeline...  
Step 2 : Turn on Stove  
Step 3 : Open the Packet / Pour a Water / Boil it.  
Step 4 : Add Vegetables if you have else skip  
Step 5 : Add a Maggie Masala  
Step 6 : Stir it for 5 minutes  
Step 7 : Maggie is Ready, Serve it hot 😊

Features of Python

1. Easy Syntax. Easy to Understand [Beginner Friendly] ['C-Python']
2. Great Community [Used By Worldwide....]
3. Open Source - Free Libraries for Multiple Purpose... [Rich in Libraries]
4. It is Programming Language.
5. High Level Language.
6. Object Oriented Programming [4 Pillars]  
[Abstraction, Encapsulation, Inheritance, Polymorphism]
7. .byte code -> Platform Independent -> .py

Installing Anaconda Navigator....



