

Introduction

Programming language :- A programming language is a formal language for creating instructions for a computer to follow.



→ Set of rules and symbols that define the process of writing computer programme.

English :-

{ Alphabets - A, B - - - Z
Words - Apple, Ball - -
Sentence - I eat something
Grammar, Tenses.



* A programming language is like a set of special rules and symbols that you use to give instructions to a computer.

Why?

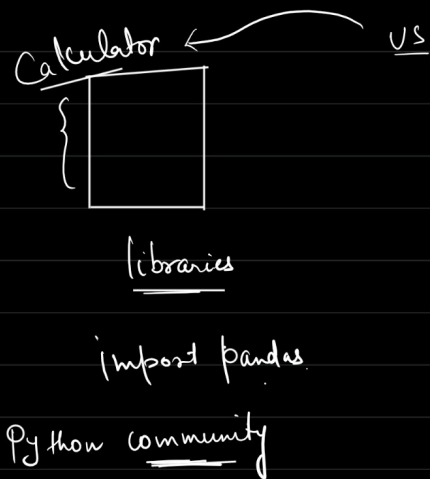
- Interaction with computers
- Software programmes
- Embedded devices
- Robotics
- Chat GPT

* How?

- basics
- Syntax
- Data types
- variable
- operators
- Conditional statements

* Why Python?

- ① widely used in the industry.
- ② Data industry
- ③ A lot of libraries.
- ④ frontend, backend, Data analysis.
- ⑤ Automation
- ⑥ image processing
- ⑦ databases



- Ease of learning
 - Versatility → web dev, ML, ... etc.
 - Read
 - A lot of libraries
 - huge active community.
- =

* Code → instruction.

a=10 → platform (Environment)

IDEs → Integrated Development Environment Software.

↓
Computer will
execute
code directly
using IDEs.

VScode, PyCharm, Google colab.

→ 1991 → by Guido
van Rossum

Python

Python - 2.X
Python - <u>3.X</u>