

Introduction to Python-I

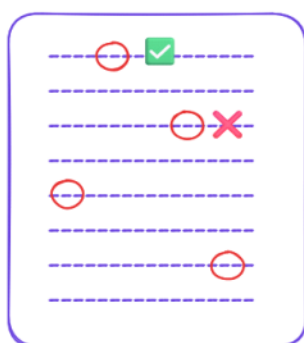
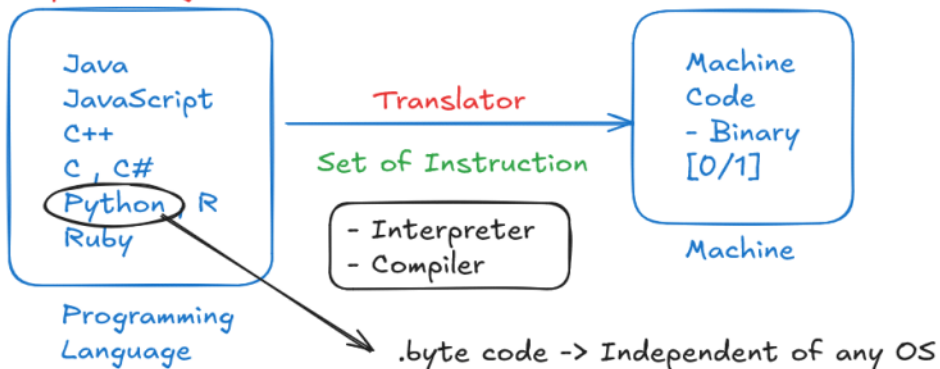
Session Objectives:

- 🔍 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 Analytics
- 💻 Install Python and Anaconda (Jupyter Notebook)

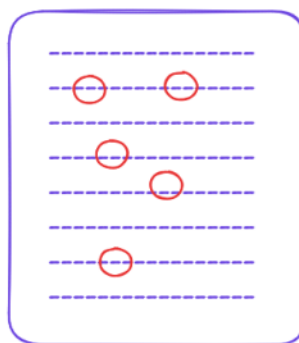
What is Programming Language?

mode of communication.
Common in both ends.

Syntax[English]

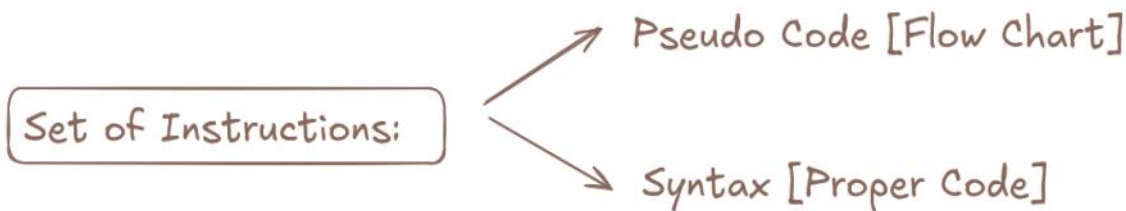


Interpreter
Line By Line



Compiler
Full Scan

✗ Line 2 ----- error
Line 4 error
Line 5 error
Line 7 error



Make a step by step process to make Maggi 🍝 🍝:

Step-1: Boil 2 cups of water in a pan on high heat.

Step-2: Once the water starts boiling, add the Maggi noodle in boiling water

Step-3: Let the noodles cook and soften for about 2 to 3 minutes, add a tastemaker stirring occasionally.

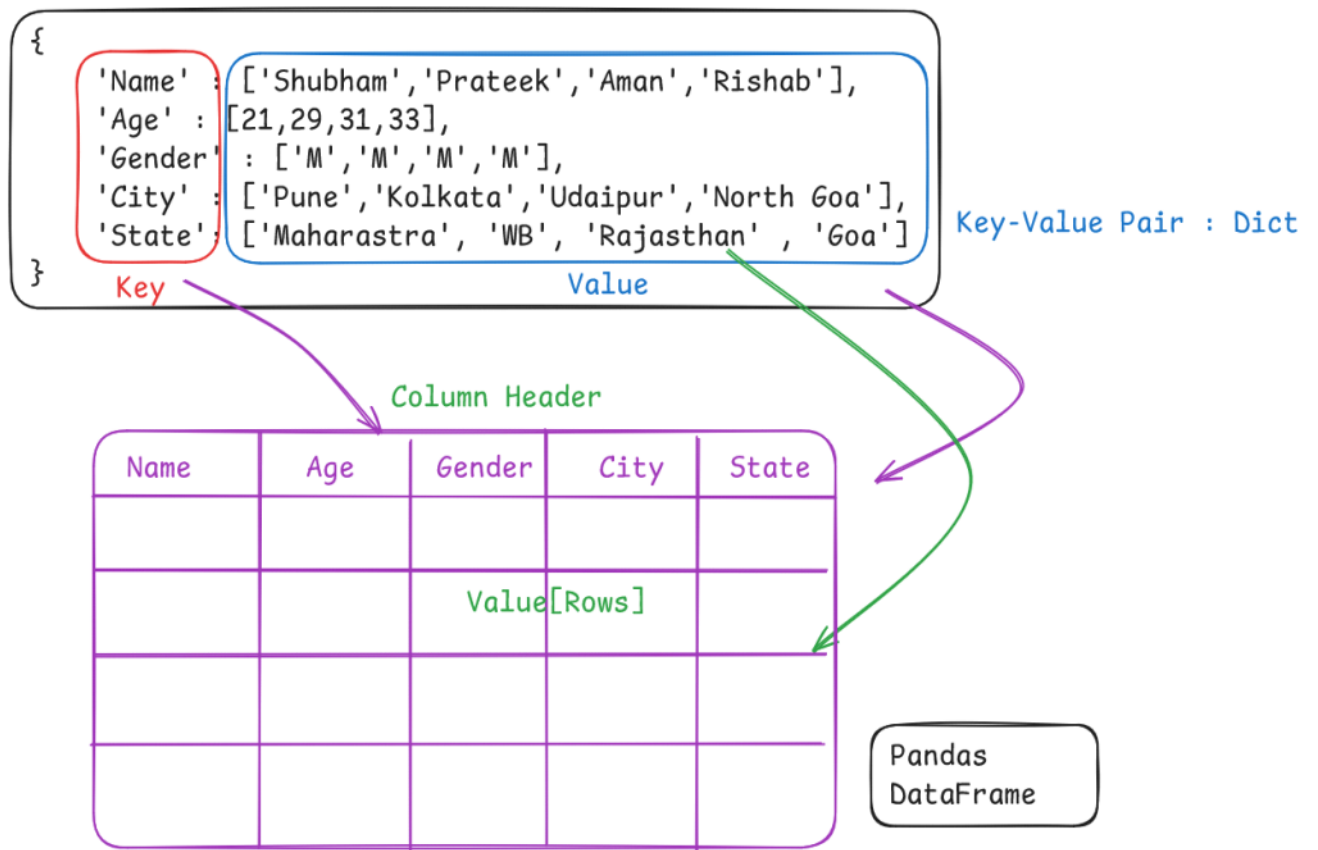
Step-4: add vegetables like chopped onions, tomatoes, carrots, capsicum) by sautéing them in a little oil separately and then mixing them in while cooking.

Step-5: For extra taste, you can scramble an egg and add it during the cooking process or add cheese at the end.

What is Python? 🐍

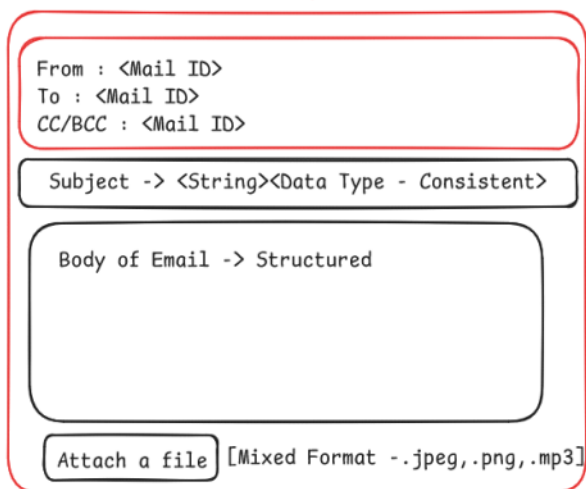
1. Easy To Understand.
2. General English Like Syntax -> Easy to write [Beginner Friendly]
3. Independent on Operating System. [Byte Code]
4. Auto Type Detection while creating a variable
5. Great Community Support.
6. Multiple Libraries are build on Python Like :
 - Numpy [Mathematical Computation],
 - Pandas [Data Cleaning & Transformation] ,
 - Matplotlib/Seaborn/Dash/Plotly [Used for Visualization] ,
 - SQLAlchemy [Help you to run SQL in Python]
7. Open Source [Free to Access]

Semi-Structured -> JSON , XML [Meta-Data] [Extracting data from Web.]



Gmail

SQL + PowerBI + Excel = Python



Anaconda navigation Installation :

<https://www.anaconda.com/download/success>

