@cl7hawke

# INTRODUCTION TO PYTHON

- ✓ I. PROGRAMMING LANGUAGE?
- ✓ II. PYTHON?
- ✓ III. WHY PYTHON?
- ✓ IV. WHAT CAN BE DONE WITH PYTHON?
- ✓ V. DRAWBACKS?

1. Programming Language : Way of communicating / instructing the PC/computer to do some specific task.

Analogy

| | Programming Lang. ⟷ | Spoken Language |
|---|---|---|
| ① | Communication b/w Human ⟷ PC | Communication b/w Human ⟷ Human |
| ② | Syntaxes keywords | Grammer vocab {words} |
| ③ | compiler / interpreter → code → instruct PC | Brain → sentence → task |

@cl7hawke

@cl7hawke

@cl7hawke

② Python ? 1991

Python is → interpreted
→ high level
→ Object-oriented programming language

(i) → {line by line} Interpreter → m/c instruction

demo.py
extension

ii) High level language :-

High level
Abstraction

iii) Object - Oriented Programming.

→ Entity that exists in the real world
→ Interest in that entity

area = length x width
perimeter = 2 ( l + w )

Object → field
Orientation → Geometric property of rectangle / field

@cl7hawke
@cl7hawke

@cl7hawke

3. Why Python ?

i) Easiest to learn → simple - beginner friendly

ii) Strong community → Stackoverflow, ChatGPT

iii) Fast prototyping

iv) Cross platform {OS}

4.

→ GUI

→ Robotics ROS

→ Web scrapping

→ Data Science

→ Cybersecurity

→ Database

→ DevOps

→ Image processing

→ IoT

5) Drawbacks :-

↳ slow as compared to c++, Java etc.

@cl7hawke

@cl7hawke