

4-01-2026

\* wed → 8:30 to 10:30 IST (pm) → Boost

\* Sat, Sunday → 9:00 AM to 1:00 PM → Max

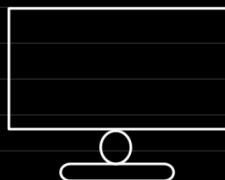
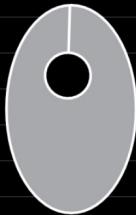
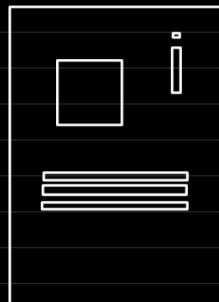
\* Mentor → Mona

Agenda:

\* Computer

\* Tools (installation) → why

\* Special announcement



Computer: machine that takes  $\text{input} \rightarrow \text{process} \rightarrow \text{output}$

input device:

Device that talk to your computer.

$\text{input} \rightarrow \text{computer}$

mouse, keyboard

Output Device: Device used to show output from the computer.

$\text{computer} \rightarrow \text{output}$

: screen, printer, speakers.

The brain: CPU (central processing unit) : low memory  
→ hard disk memory

proces → calculation  
↓ ↓  
→ 70 ≈ mb

→ 3.ghz → 3 million calcu ≈  
billion

→ RAM: (Random Access Memory)

: app, the computer puts it on RAM when you open it.

: ram storage gets cleaned, not permanent

→ HDD, SSD: The storage

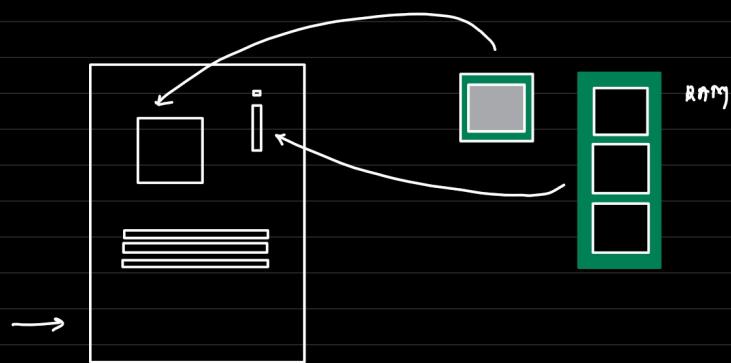
image, video

: file exist, permanent.

HDD → Hard Disk Drive →  → slow

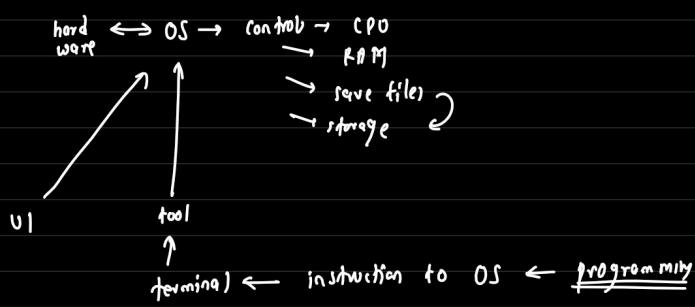
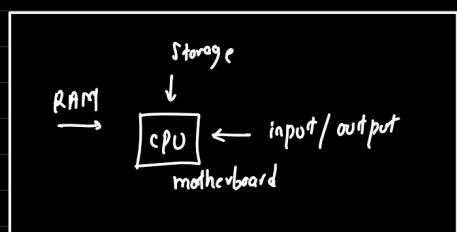
SSD → Solid State Drive →  → fast

## Intermediate



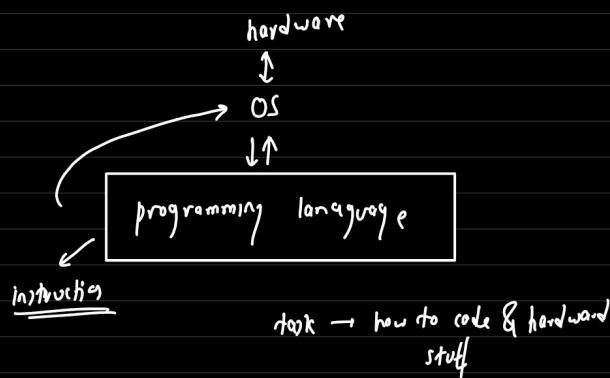
BIO → OS  
→ CPU  
→ RAM

OS → window  
Mac  
Linux

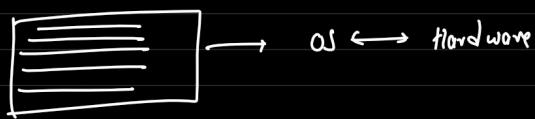


\* instruction → send my query to chartgpt and get the result.

→ Developer → programming language



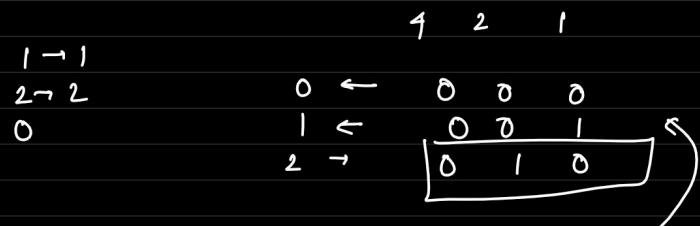
\* C, C++, C#, Java, Python



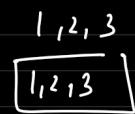
→ Dataflow → Python

CPU → electricity off / on

0 / 1 → binary language



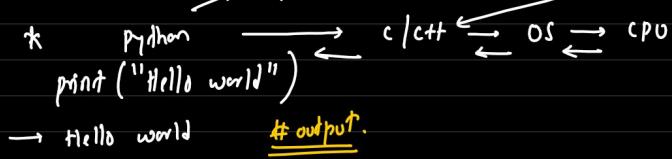
low-level language



→ High level language



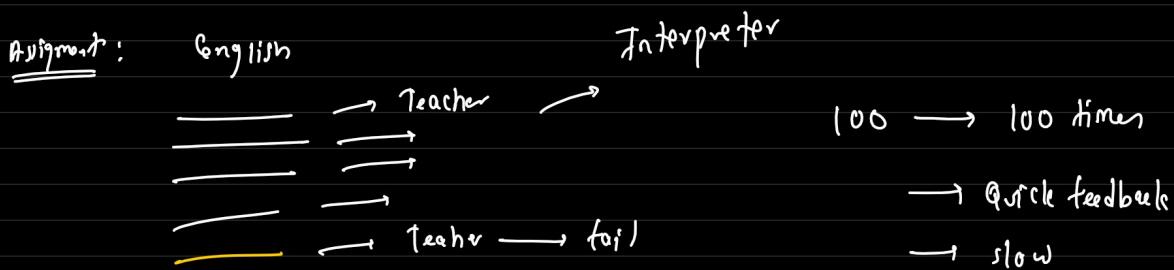
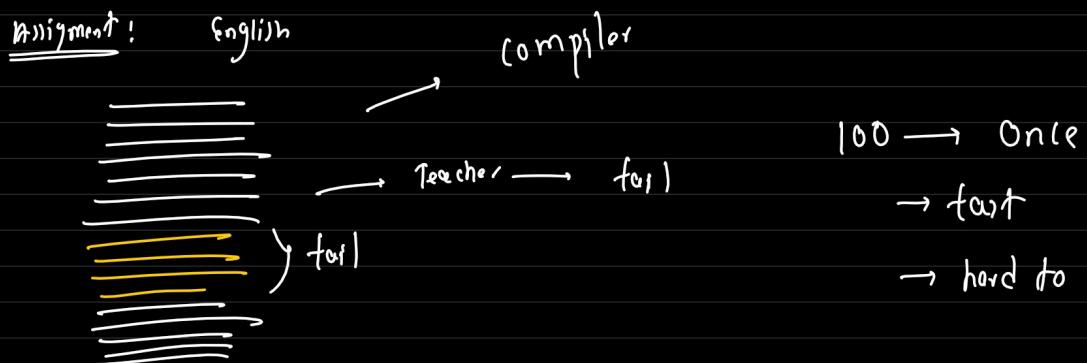
Bytecode (middle language)



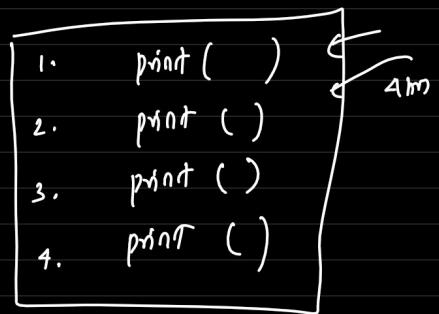
\* compile

\* Interpreted





python → Interpreter & compiler



python → programming language → 33 years old

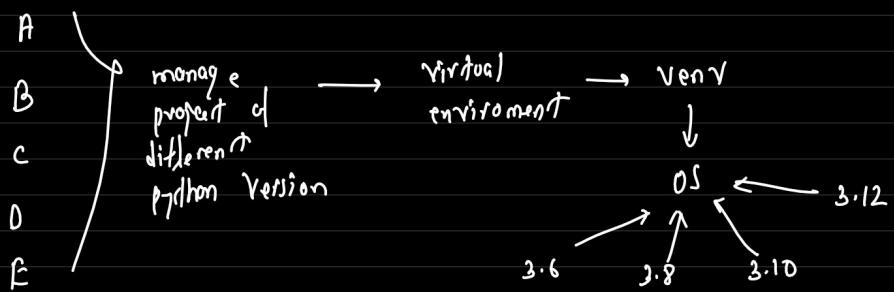
coding → Project → set of task

2020 → 3.6

project → 3.14

2026

instrogram → 20 → 2026  
instrogram → 1 → break



Software → UV ≥ package manager

### Tools:

- Terminal
- programming language → python
- project manager → UV
- code? → Tool → notepad
  - Rich text / text edit

Tool → write, update, create, delete → Editor)

→ write, update, create, delete  
+  
run, debug, extension & more  
functionalities

→ IDE → VS code

Integrated Development Environment → Python  
Environment → Spyder  
Environment → cursor  
Environment → Anaconda

python → software

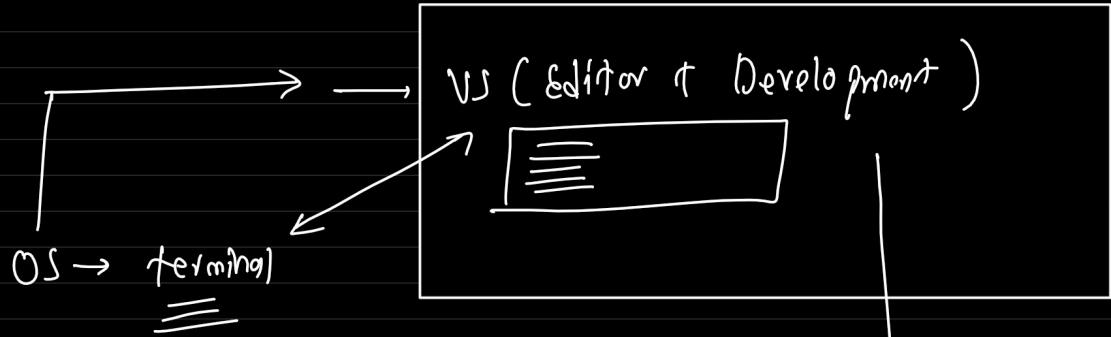


image → mβ  
→ gallo

(pj) → VS  
→ python software ←

