Coding

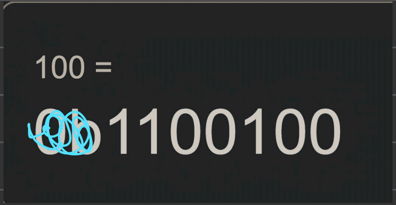
→ PL → HLL — python c++ Java

MLL → C / pascal

LLL

computer → Machine (IC) → Binary code/language

0 & 1



100 =

0b1100100

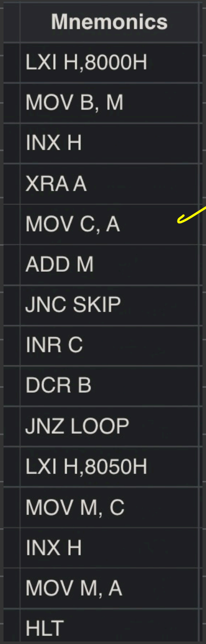
Binary Code → Assembly Language → Low Level programming

0/1

ADD H

SUB M

Low Level programming ↓ Coding easy



Mnemonics
LXI H,8000H
MOV B, M
INX H
XRA A
MOV C, A
ADD M
JNC SKIP
INR C
DCR B
JNZ LOOP
LXI H,8050H
MOV M, C
INX H
MOV M, A
HLT

→ Assembly code to multiply 8 bit

Problem with Low Level languages

→ can't write Highly scalable code

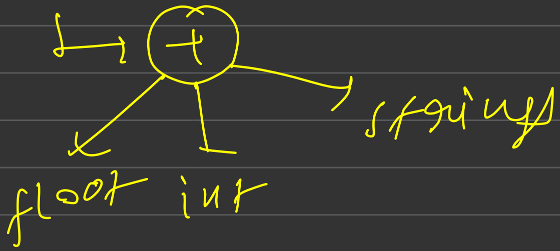
Object Oriented Techniques

↳ Abstraction

↳ data encapsulation

↳ Inheritance

↳ Polymorphism



High Level Languages

↳ These support OOT

Compiler	Interpreter

Compiler

HLL → Ass

It reads whole file at once & show all errors

executable file

→ compiler

c++

Interpretor

HLL → Ass

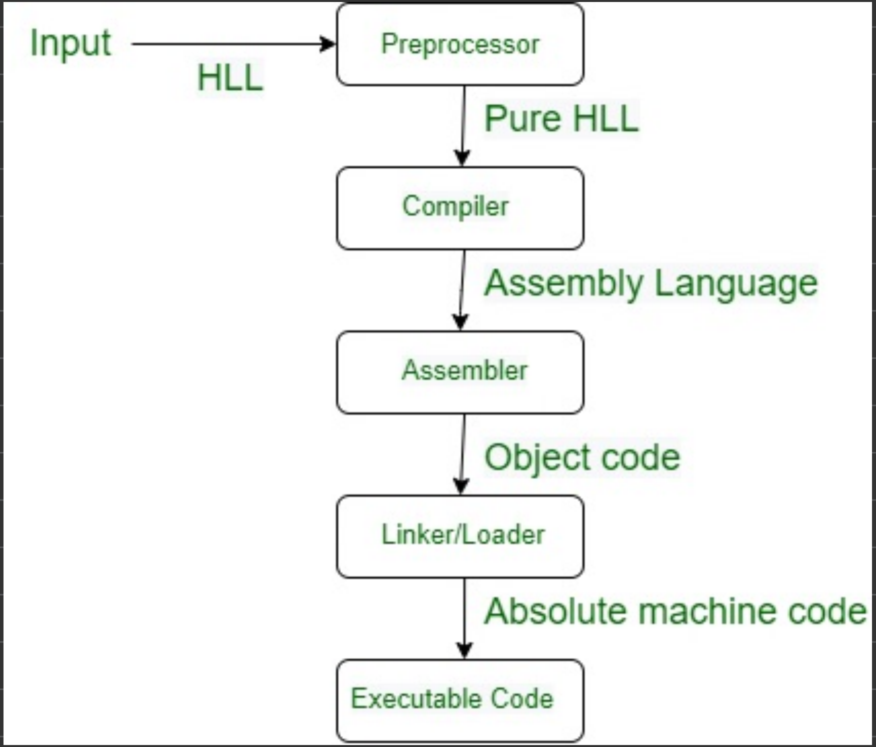
It stops checking as soon as an error encountered

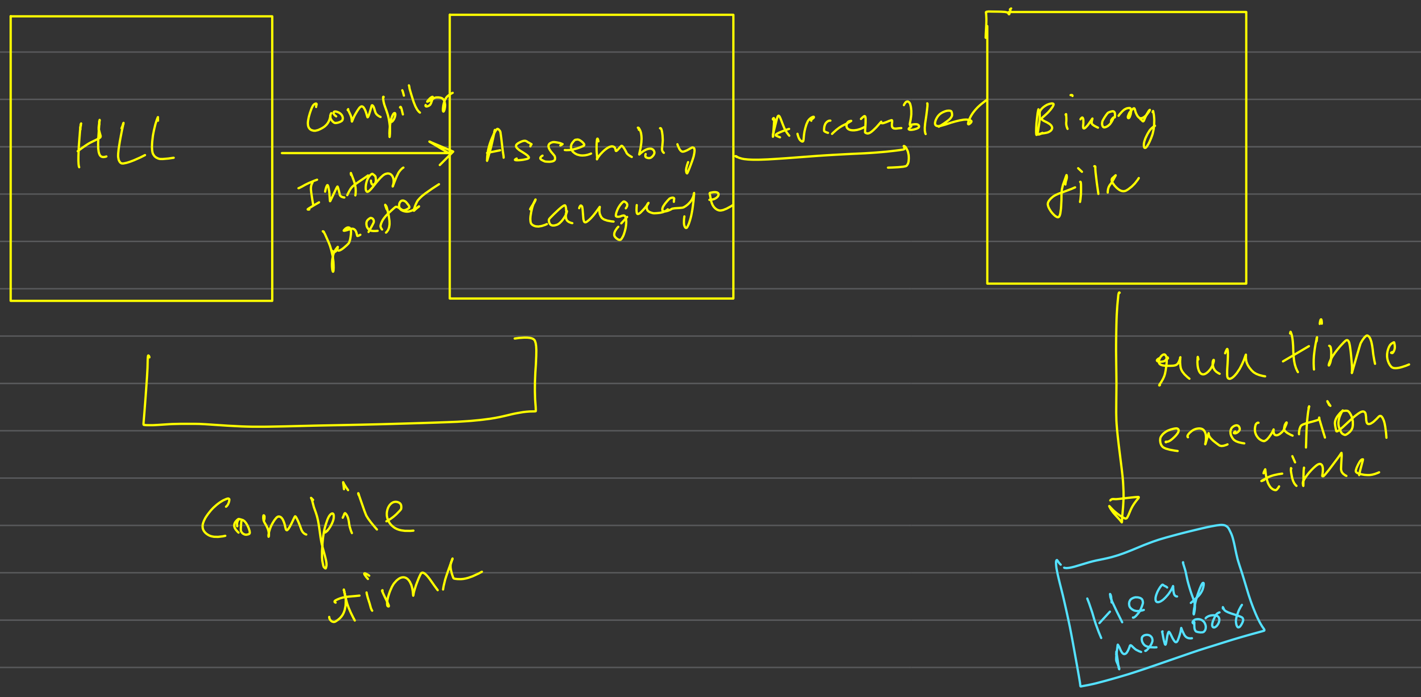
→ line by line

doesn't create a file

python

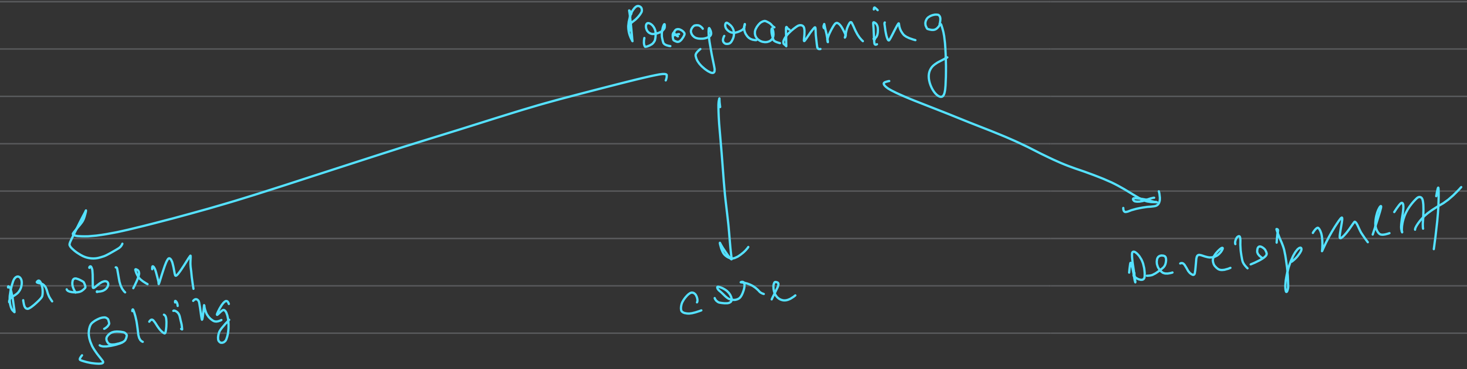
Java




HLL
Compiler
Interpreter
Assembly language
Assembler
Binary file
run time
execution time
Heap memory
Compile time

Python

interpreted



Programming

Problem solving

core

development

Python install

editor

CLI → Run

CLI – Command Line Interface

UI → user Interface