

# IN THE NAME OF ALLAH THE GRACIOUS, THE MERCIFUL.



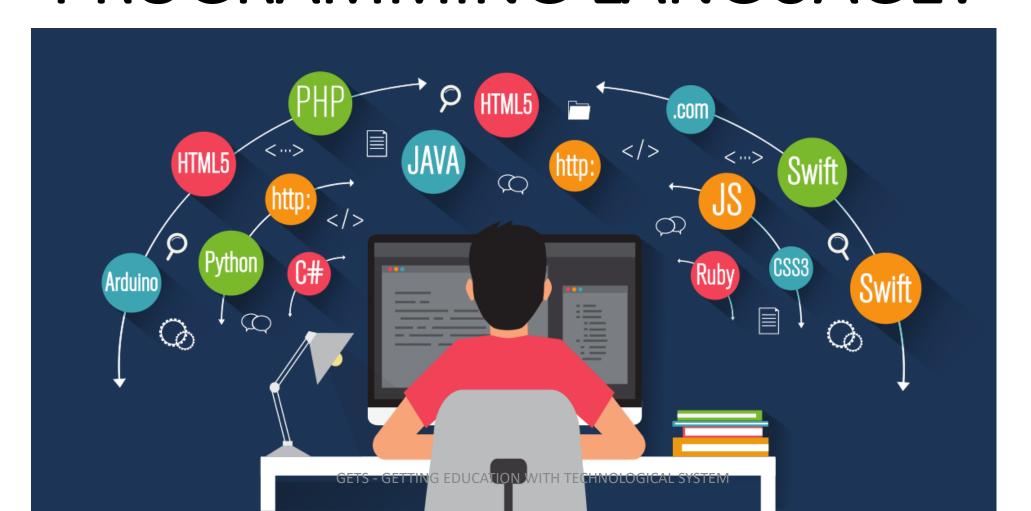
#### GETS - GETTING EDUCATION WITH TECHNOLOGICAL SYSTEM

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## WHAT IS COMPUTER PROGRAMMING LANGUAGE?



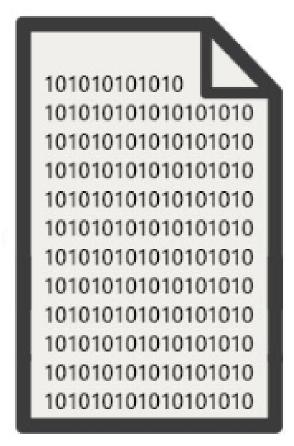
Computer programming languages allow us to give instructions to a computer in a language that computer can understands.

#### CLICK ME TO WATCH THE VIDEO

The language that a computer can understand is called a "binary Language 0 & 1" or "Machine Language"

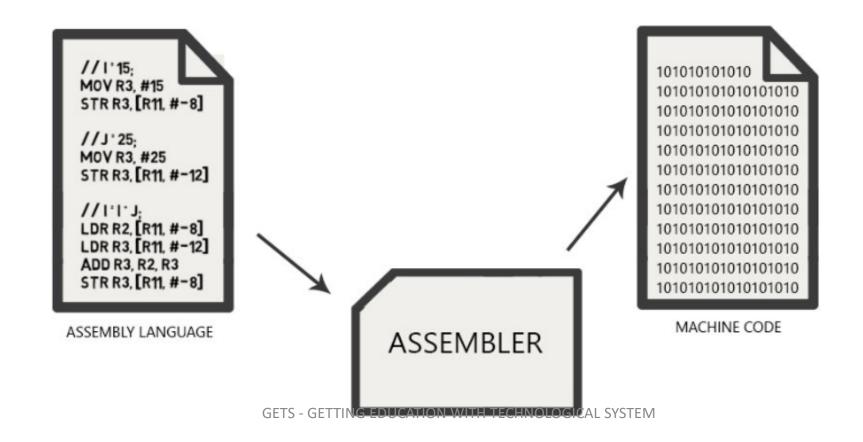
Translating programming language into binary is known as "Compiling"

PROGRAMMING IN MACHINE LANGUAGE OR BINARY CODE IS TOO MUCH HARD TO UNDERSTAND FOR HUMANS.



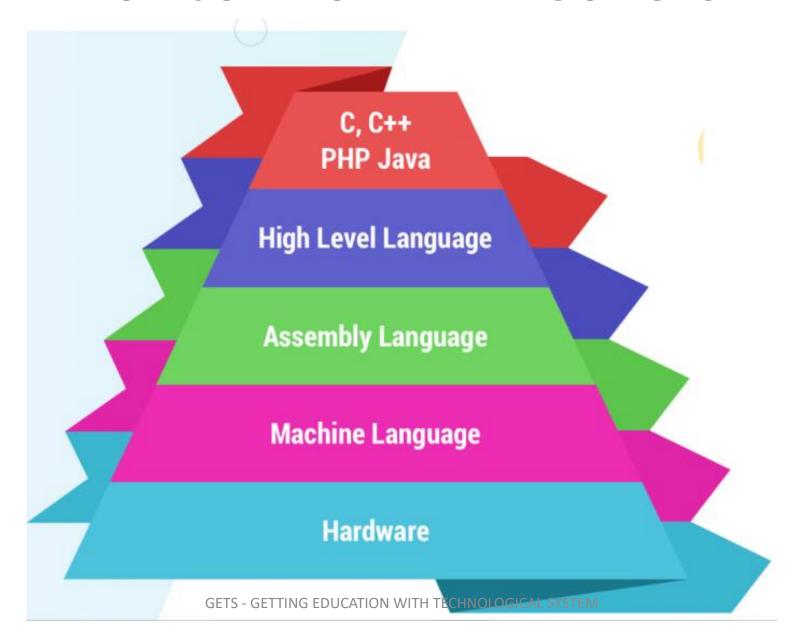


#### ASSEMBLY LANGUAGE MEANS LOW-LEVEL or MEDDLE-LEVEL LANGUAGE IS ALSO HARD FOR HUMAN TO UNDERSTANDS.



## FOR MAKING THE PROGRAMMING IS *EASY*FOR EVERYONE THEN PROGRAMMER BUILD *HIGH-LEVEL LANGUAGES*

#### LEVEL OF COMPUTER LANGUAGES



#### **Computer Languages**

#### Low Level Language

( Machine Language )

Use 1' s & 0' s to create instructions

#### Ex: Binary Language

#### Middle Level Language

( Assembly Language )

Use mnemonics to create instructions

#### **Assembly Language**

```
org 100h

jmp start

msg: db "Hello, World!", 0Dh,0Ah, 24h

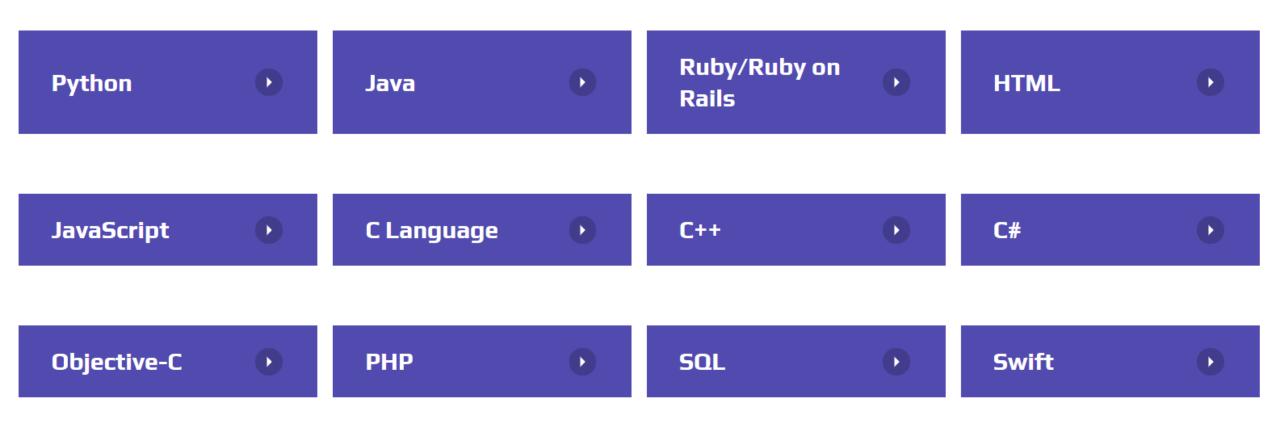
start: mov dx, msg
ah, 09h
int 21h
mov ah, 0
int 16h

ret
```

#### **High Level Language**

#### Similar to human langugae COBOL, FORTRAN, BASIC C, C++, JAVA

There are an many high-level computer programming languages that programmers can use to communicate with a computer like:



### WE HAVE SELECTED THE JAVA PROGRAMMING LANGUAGE IN THIS COURSE



#### WHAT WE HAVE LEARN FROM THIS LESSON:

- What is Computer Programming Language
- Machine Language is hard for human understanble
- Assembly is also hard for human
- Different Between Low-Level, Middle-Level, High-Level Languages