اللهم صلي وسلم وبارك علي سيدنا محمد وعلي اله وأصحابه أجمعين







ممم جداً

هذا الملف للمراجعة السريعة واخذ الملاحظات عليه فقط ،لانه يحتوي على اقل من 20٪ مما يتم شرحه في الفيديوهات الاستعجال والاعتماد عليه فقط سوف يجعلك تخسر كميه معلومات وخبرات كثيره

يجب عليك مشاهدة فيديو الدرس كاملا

لاتنسى عمل لايك ومشاركة القناة لتعم الفائدة للجميع لا تنسونا من دعائكم

ProgrammingAdvices.com

Mohammed Abu-Hadhoud

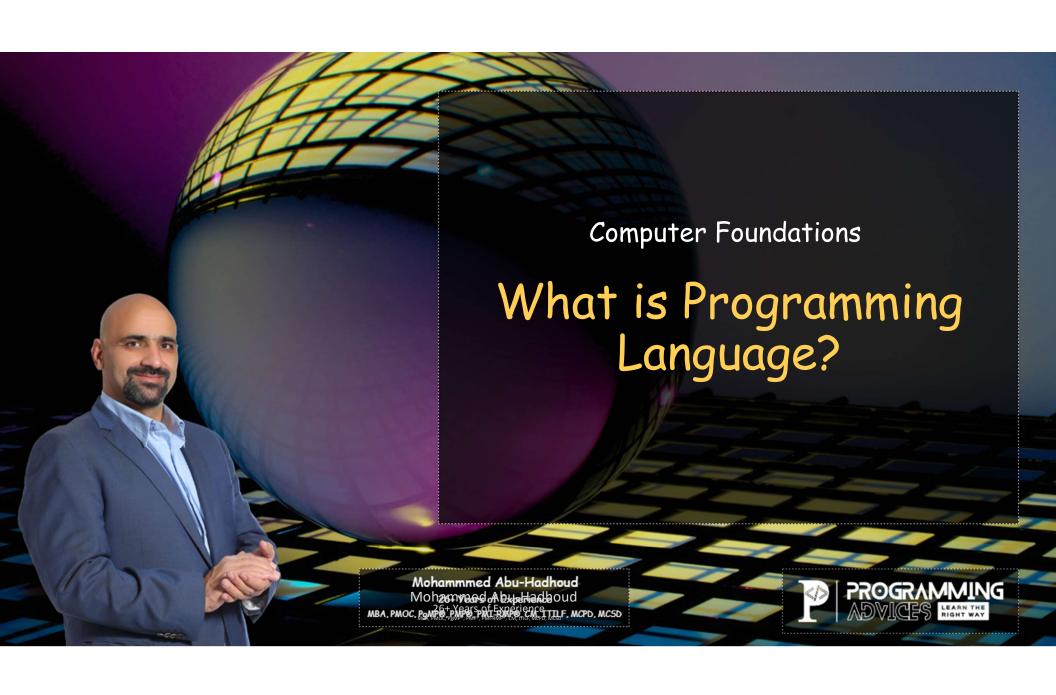




We have hundreds of Programming languages







Programming Language Is only a TOOL to help you write <u>instructions</u> to computer to perform certain operation/Task.

Instructions are called code



Write a program to print





Machine Language:

Computer programming language consisting of binary or hexadecimal instructions which a computer can respond to directly.



Binary

01001000 01100101 01101100 01101100 01101111 00101100 00100000 01010111 01101111 01110010 01101100 01100100 00100001

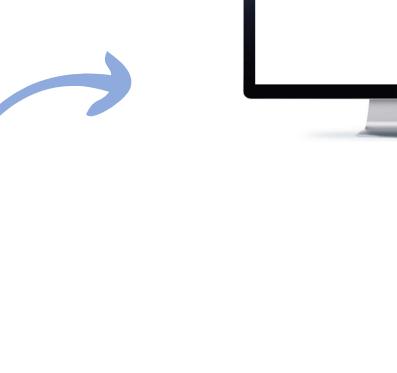
Machine Language:

0x55 0x89 0xe5 0xe8 0xfc 0xff 0xff 0xff 0x83 0xf8 0x41 0x75 0x68 0x0d 0x00 0x00 0x00 0x00 0xe8 0xfc 0xff 0xff 0xff 0x83 0xb8 0x00 0x04 0xc4 0x00 0x00 0x00 0x89 0xec 0x5d 0xc3



Assembly Language

push %ebp mov %esp,%ebp call 0x8048298 cmp \$0x41,%eax jne 0x80483ce push \$0x80484b0 call 0x80482c8 add \$0x4,%esp mov \$0x0,%eax mov %ebp,%esp pop %ebp ret



Hello, World!



Machine Code vs Assembly Language:

Machine Language

0x55 0x89 0xe5 0xe8 0xfc 0xff 0xff 0xff 0x83 0xf8 0x41 0x75 0x68 0x0d 0x00 0x00 0x00 0x00 0xe8 0xfc 0xff 0xff 0xff 0x83 0xb8 0x00 0x04 0xc4 0x00 0x00 0x00 0x89 0xec 0x5d 0xc3



Assembly Language

push %ebp mov %esp,%ebp call 0x8048298 cmp \$0x41,%eax jne 0x80483ce push \$0x80484b0 call 0x80482c8 add \$0x4,%esp mov \$0x0,%eax mov %ebp,%esp pop %ebp ret



High level Languages





Hello, World!



Machine vs Assembly vs Basic:

Low Level Languages



Machine Code

0x55 0x89 0xe5 0xe8 0xfc 0xff 0xff 0xff
0x83 0xf8 0x41 0x75 0x68 0x0d 0x00 0x00
0x00 0x00 0xe8 0xfc 0xff 0xff 0xff 0x83
0xb8 0x00 0x04 0xc4 0x00 0x00 0x00 0x89
0xec 0x5d 0xc3



Assembly Language

push %ebp mov %esp,%ebp call 0x8048298 cmp \$0x41,%eax jne 0x80483ce push \$0x80484b0 call 0x80482c8 add \$0x4,%esp mov \$0x0,%eax mov %ebp,%esp pop %ebp ret

High Level Language

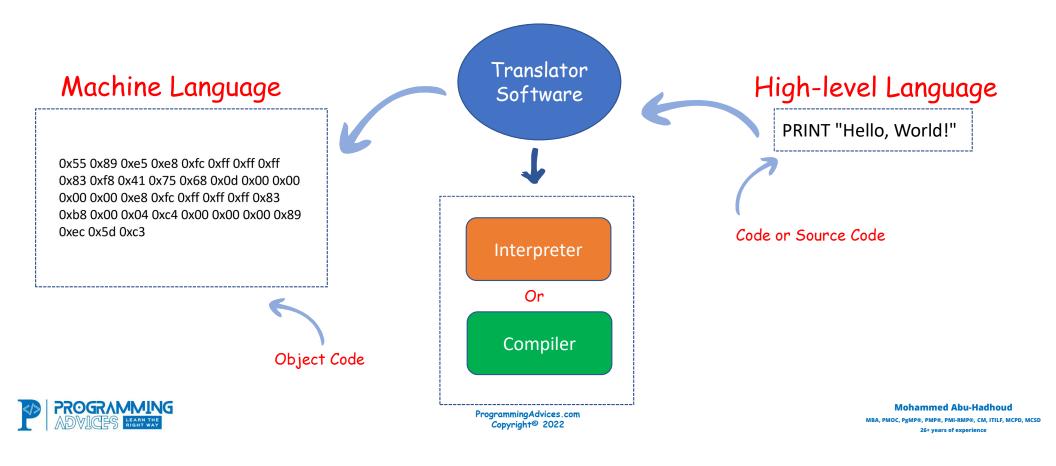


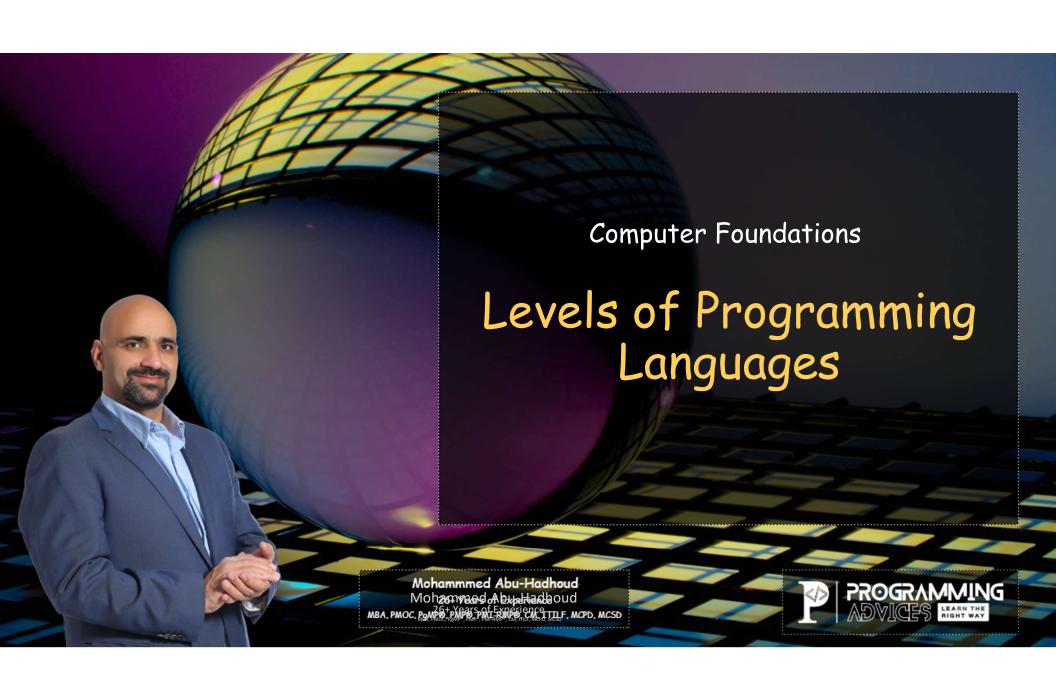
"Basic" Language

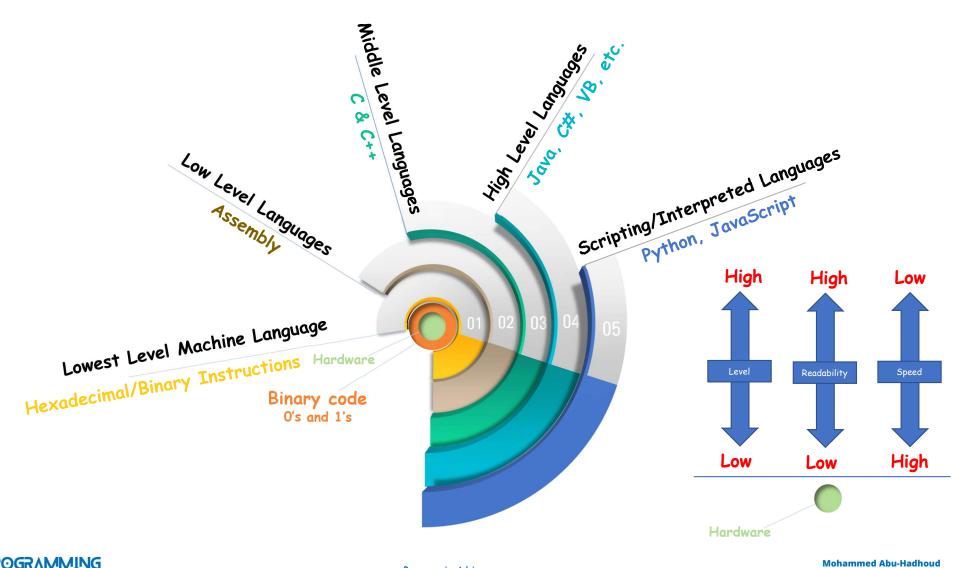
PRINT "Hello, World!"



You need a Translator!









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Answer the following questions:

- What Programming Language?
- What is Code?
- What is Source Code?
- What is Object Code?
- Why do we need Compilers or Interpreters?
- When is the language considered Fast?
- When is the language considered Slow?
- What is high-level language?
- What is a low-level language?
- When do we consider a language is a human readable?



Thank you ©

