





## 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** 





#### You need a Translator!

Name: Mohammed

Age : 44

#### 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

Object Code

Translator Software



Interpreter

Or

Compiler

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#### High-level Language

PRINT "Name: Mohammed"

PRINT "Age : 44"

Code or Source Code

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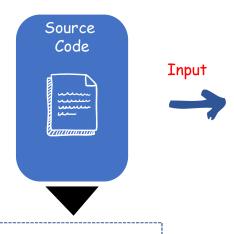




### Compiler:

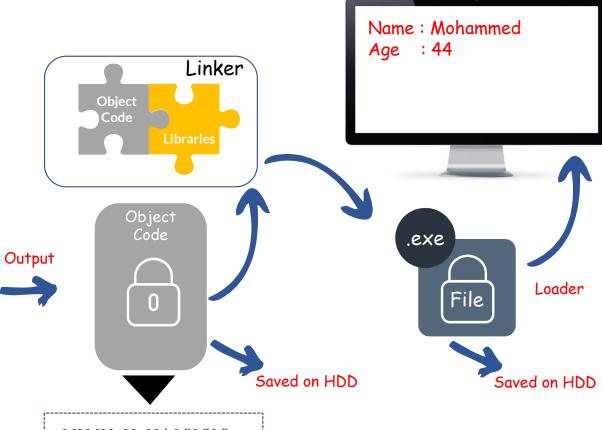
#### Build

Compiler



PRINT "Name: Mohammed"
PRINT "Age: 44"





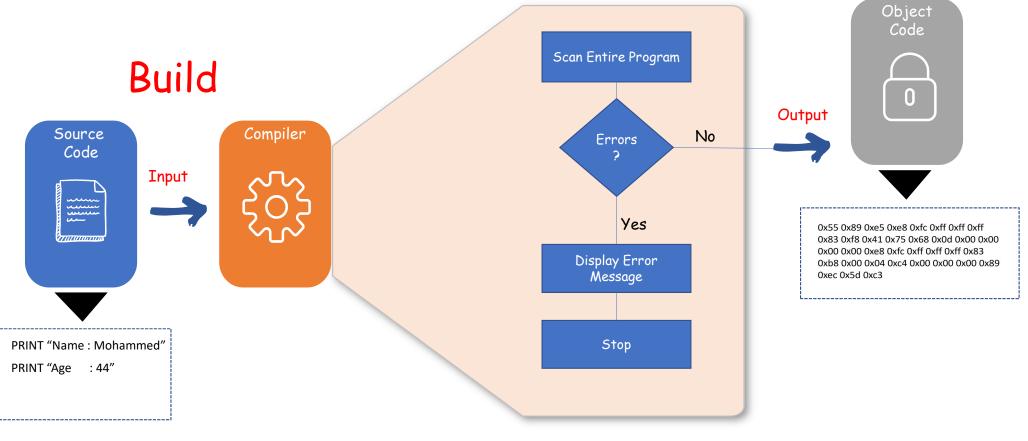
0x55 0x89 0xe5 0xe8 0xfc 0xff 0xff 0xff 0x83 0xf8 0x41 0x75 0x68 0x0d 0x00 0x00 0x00 0x00 0xe8 0xfc 0xff 0xff 0xff 0x83 0xb8 0x00 0x04 0xc4 0x00 0x00 0x00 0x89 0xec 0x5d 0xc3

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## Compiler:



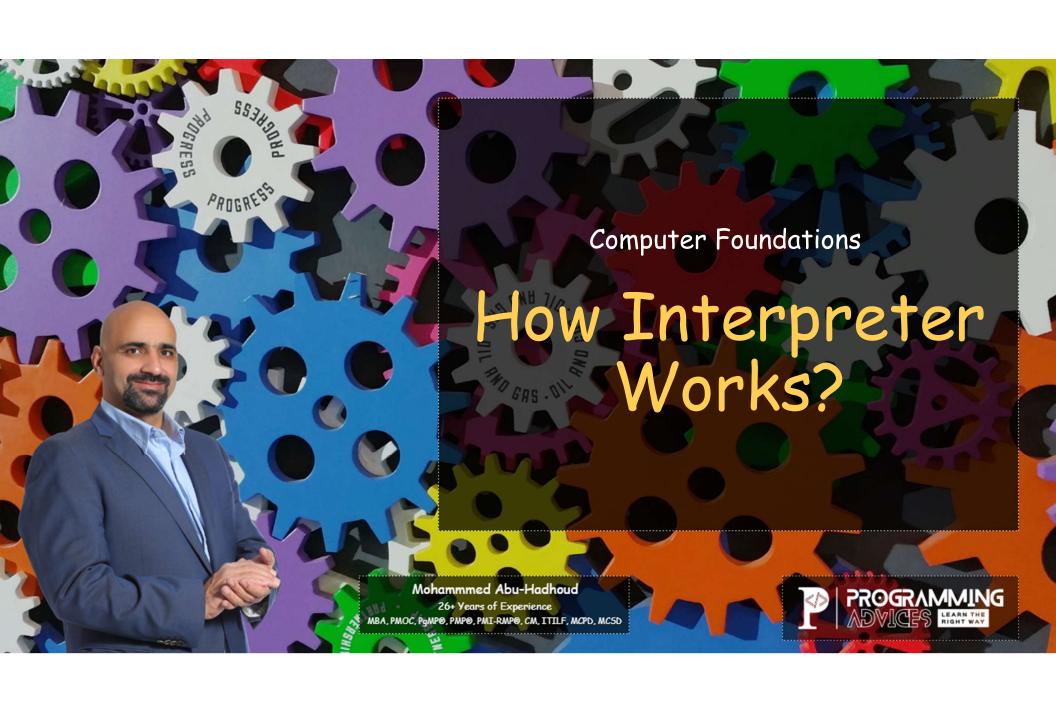


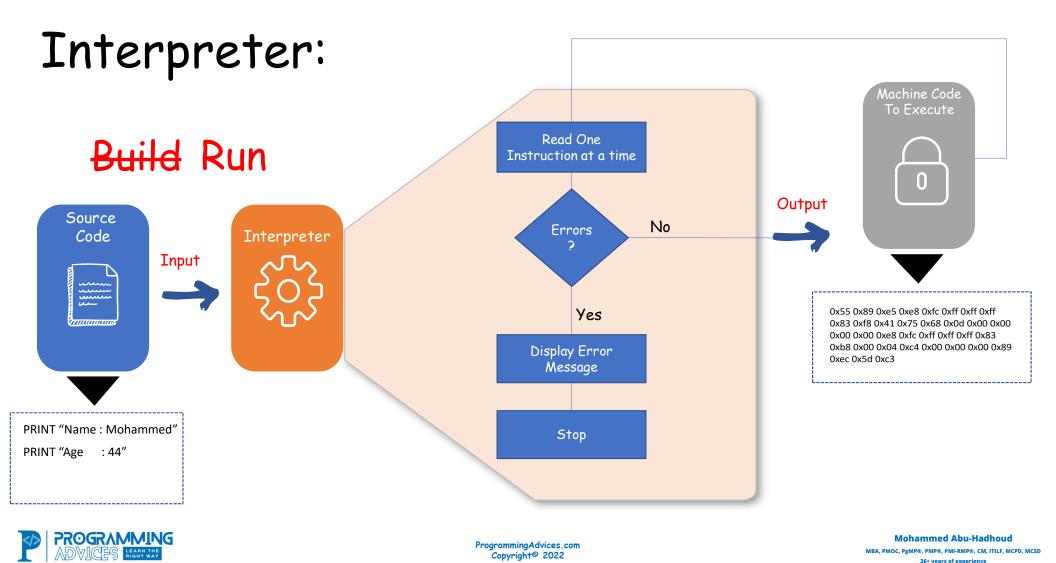
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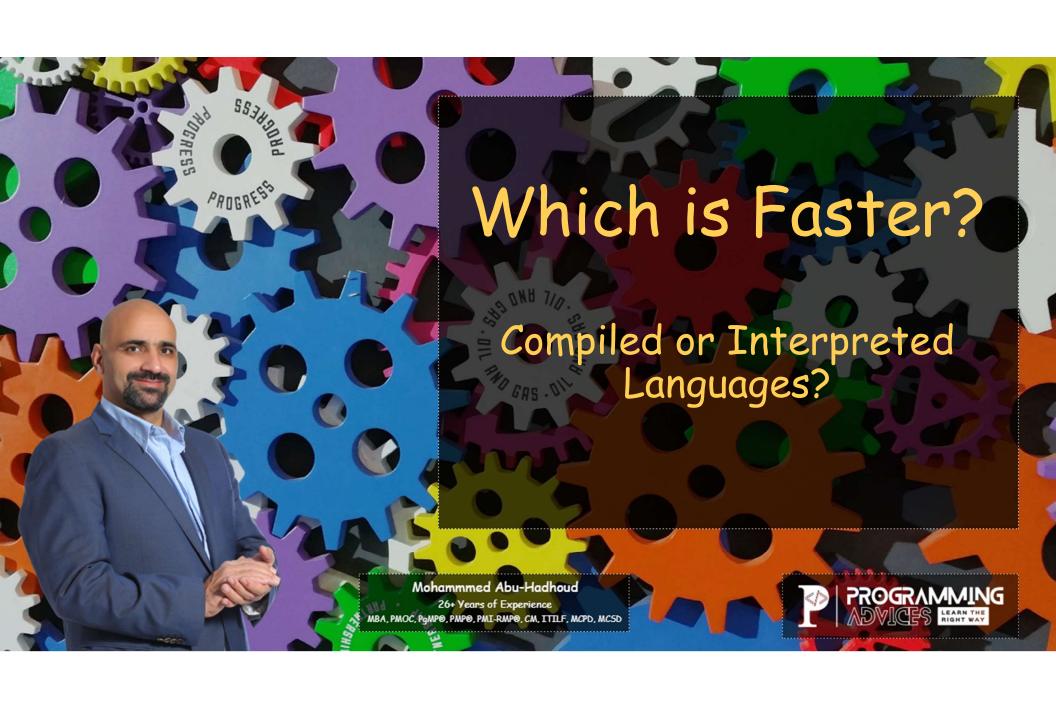
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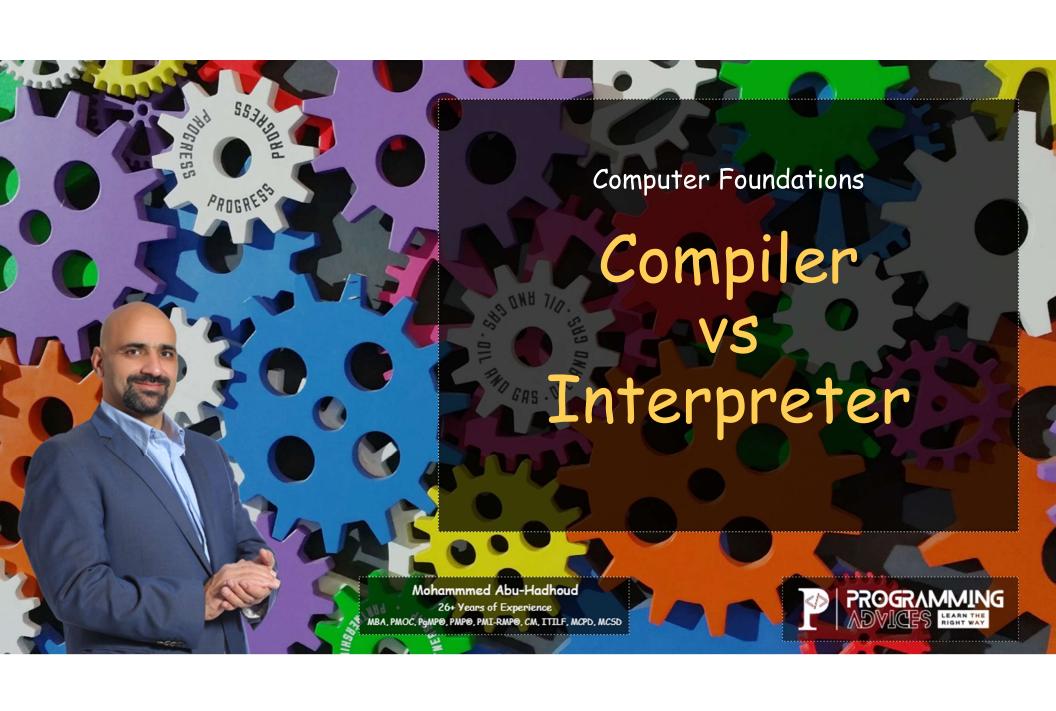


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# Compiled Languages <u>are much faster</u> than interpreted Languages.











Reads the Entier Code at once

Execute the process is much faster

Machine Code is stored in HDD

Generates exe file

C, C++



Reads one instrcution at a time

Execute the process is much slower

Does not store any machine code on HDD

No exe file generated

Ruby, Python, Javascript.





Assembler is the program that translate the assembly code to Machine code.





#### Answer the following questions:

- What is compiler? And how it works?
- What is Interpreter? And how it works?
- What is Assembler?
- What is Linker?
- What is exe file?
- What is Loader?
- Which is faster Compiled or Interpreted languages?
- Does Interpreter produce exe file?
- Does Interpreter save machine code?
- Does Compiler produce exe file?
- Does Compiler save machine code?



## Thank you ©

