

Introduction to Interpreter

Course Code: CSE 309

Course Title: Object Oriented Programming II : Visual and Web Programming

A blue scroll icon with a dark blue outline. It has a rounded top-right corner and a small circular tab on the left side. The text "C code" is centered in white.

C code

A blue scroll icon with a dark blue outline. It has a rounded top-right corner and a small circular tab on the left side. The text "Python" is centered in white.

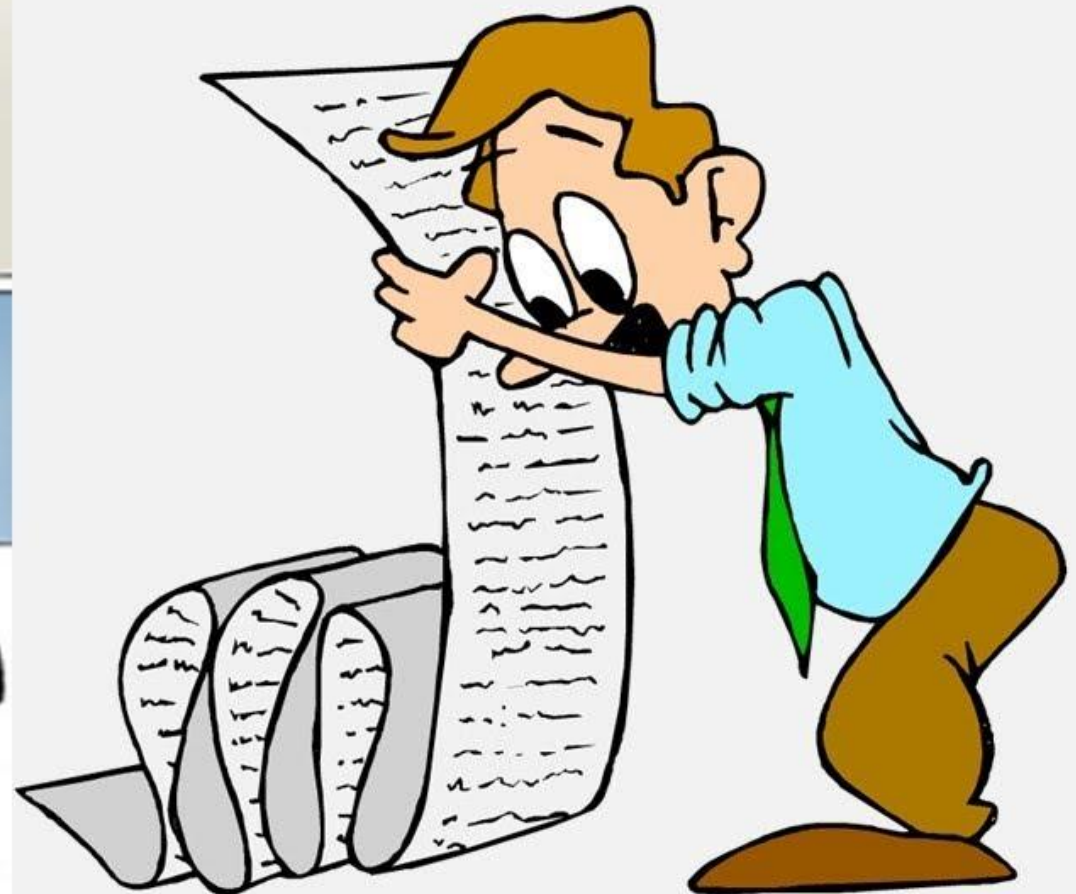
Python

Interpreter



Vs

Compiler



Interpreter VS Compiler

No Compiler

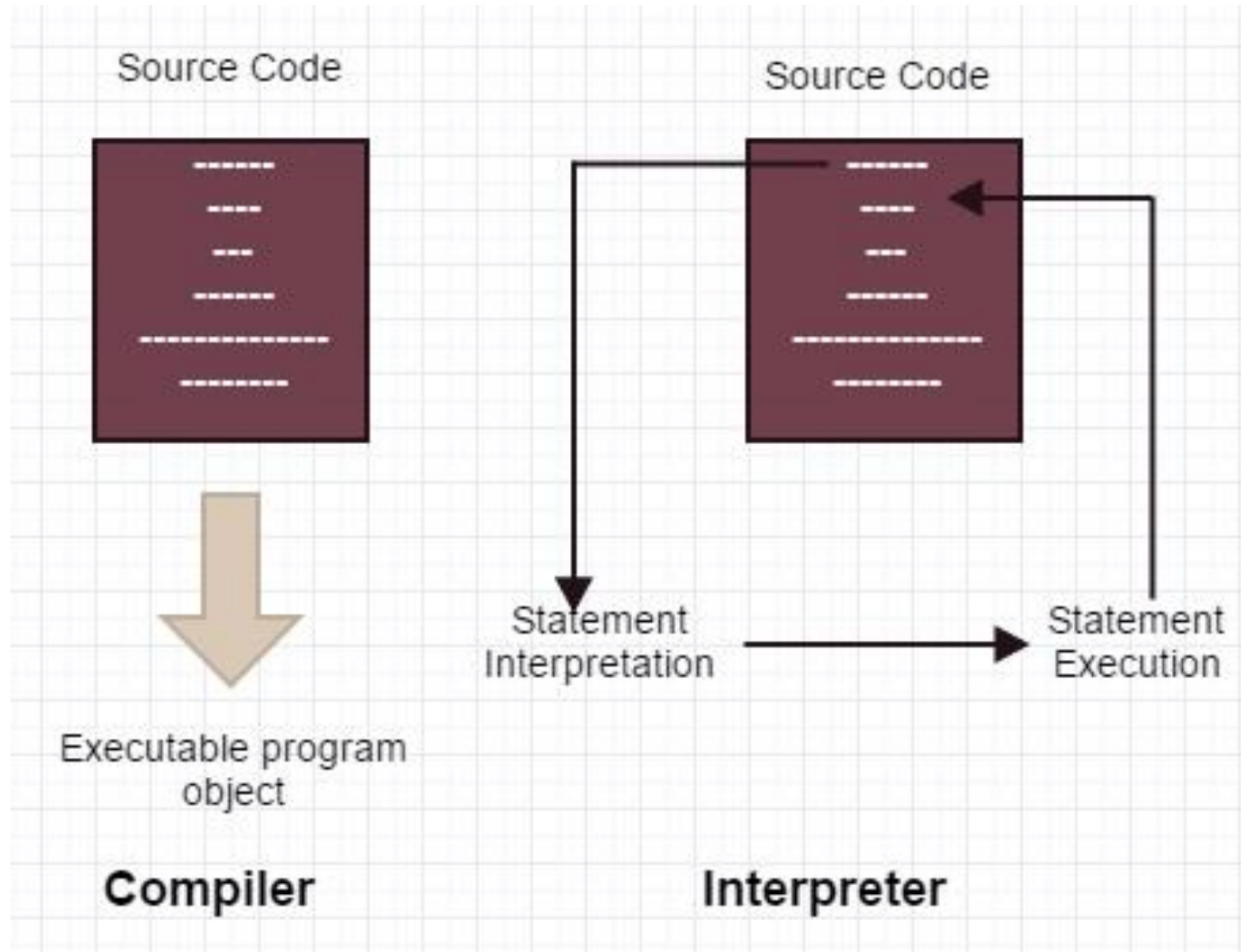
Interpreter

1	Compiler Takes Entire program as input	Interpreter Takes Single instruction as input .
2	Intermediate Object Code is Generated	No Intermediate Object Code is Generated
3	Memory Requirement : More (Since Object Code is Generated)	Memory Requirement is Less
4	Program need not be compiled every time	Every time higher level program is converted into lower level program
5	Errors are displayed after entire program is checked	Errors are displayed for every instruction interpreted (if any)

Compiler VS Interpreter

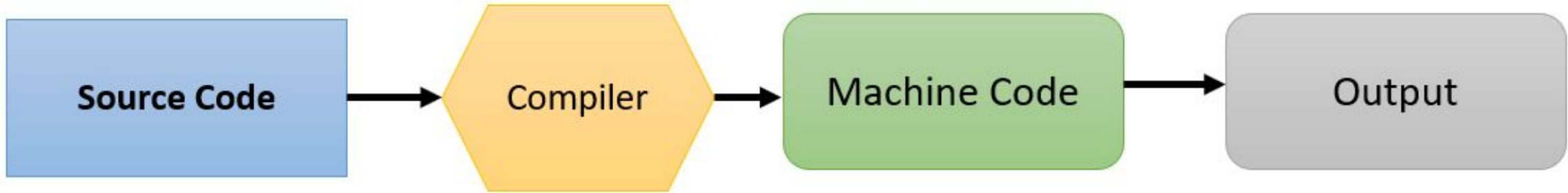
No	Compiler	Interpreter
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Compiler VS Interpreter



Compiler VS Interpreter

How Compiler Works



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How Interpreter Works



Compiler VS Interpreter

3	Memory Requirement : More (Since Object Code is Generated)	Memory Requirement is Less
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0-1 Knapsack DP.cpp

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C++ source file



0-1 Knapsack DP.exe

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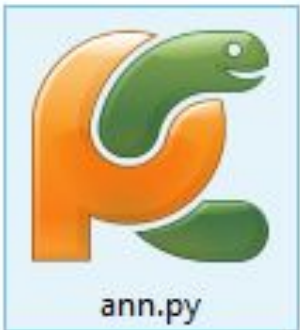
Application



0-1 Knapsack DP.o

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O File



Compiler VS Interpreter

4	Program need not be compiled every time	Every time higher level program is converted into lower level program
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Compiler VS Interpreter

5	Errors are displayed after entire program is checked	Errors are displayed for every instruction interpreted (if any)
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Thank You