

12_In-Class_Python_Program_Execution

ITF-010-Python+07_(12)ProgramExecution

Training Clarusway

Pear Deck - December 2, 2021 at 8:10PM

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1



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Slide 2

Table of Contents ➤

- ▶ Introduction
- ▶ The Interpretation
- ▶ Virtual Machine

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1 ➤ Introduction

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Your Response

How was the pre-class content? Did you cover the **Program Execution?**

 Students, drag the icon! 

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▶ Introduction (review)



```
print('Hello World!')
```

!?

background

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▶ Introduction (review)

- Several Interpreter tools :



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▶ Introduction (review)

- The process of program execution (the program flow) basically looks like this :



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2 The Interpretation



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► The Interpretation (review)



What is the interpretation
process?

?



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► The Interpretation (review)



What is the interpretation process?

?

Simply, we can say that this is like **reading your codes**.

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10

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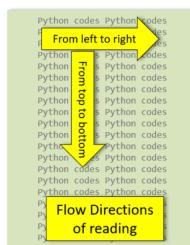
► The Interpretation (review)



What is the interpretation process?

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Simply, we can say that this is like **reading your codes**.



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► The Interpretation (review)

CPython

Python's default interpreter is a software written in the **C** programming language known as CPython.

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Your Response

Could you remember
these interpreters?



Write down their names.



Students, write your response!

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► The Interpretation (review)

Jython

It is an interpreter that works with a Java-based algorithm and converts Python codes into Java-compatible byte code, which will be executed later by the Java Virtual Machine.



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Slide 15

► The Interpretation (review)

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PyPy

It is a replacement for CPython. It is built using the RPython language that was co-developed with it. The main reason to use it instead of CPython is speed: RPython (Restricted Python) provides some restrictions to the usual Python code.

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Slide 16

► The Interpretation (review)

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IronPython

It is an open-source implementation of the Python which is tightly integrated with the .NET Framework.

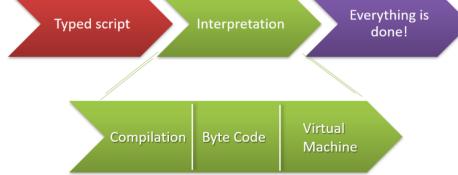
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18

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Slide 17

► The Interpretation Process (review)

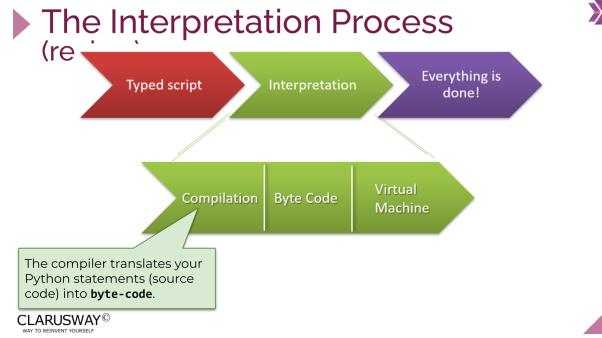


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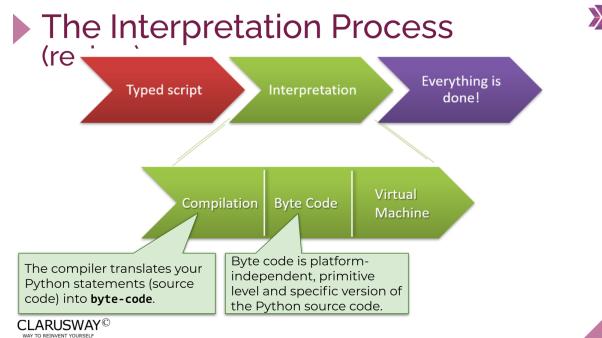
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Slide 18



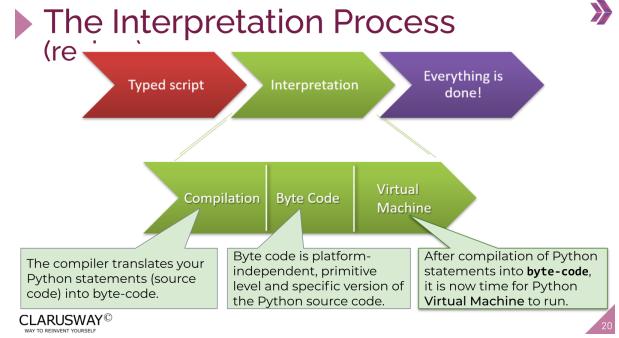
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Slide 19



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Slide 20



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Slide 21

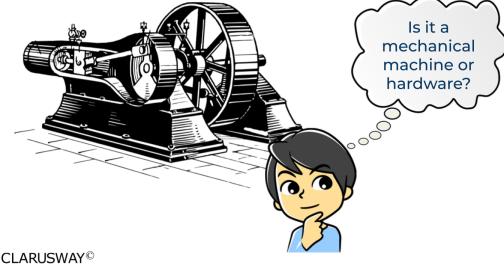
3 ▶ Virtual Machine

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► What is a Virtual Machine (review) ➤

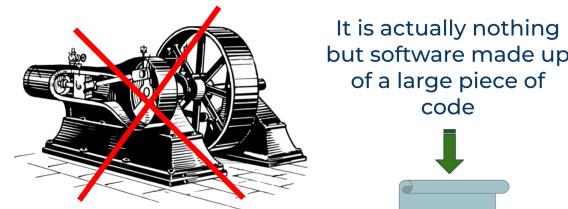


22

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Slide 23

► Virtual Machine (review)

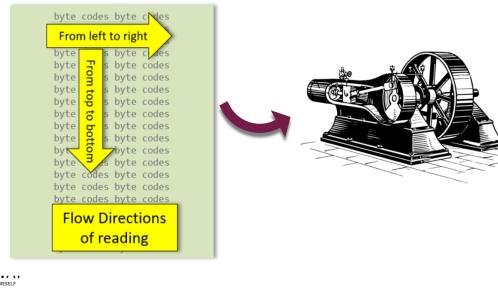


23

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Slide 24

► Virtual Machine (review)



24

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Slide 25

Your Response

How well did you like this lesson? Did you learn all topics?

A 4x4 grid for rating the lesson. The top-left cell contains a green circle with a white thumbs-up icon. The top-right cell contains a red circle with a white thumbs-down icon. The bottom-left corner features a small icon of a person with a backpack and a pencil, with the text "Students, drag the icon!". The bottom-right corner features the text "Pear Deck" and "Pear Deck Interactive Slide Do not remove this box".

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THANKS!

End of the Lesson
(Program Execution)

next Lesson

Errors

click above

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8

Link(s) on this slide:

- <https://lms.clarusway.com/course/view.php?id=21§ion=4>

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