Welcome to Python Course

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Course Summary

- You will be able to understand Python programming as a tool or foundation for data processing, visualization, machine learning modeling, and data analysis
- You will be able to understand and implement about simple version control system using Git

References

1. Think Python by Allen B. Downey | [Link](#)
2. Learn Python the Hard Way by Zed Shaw | [Link](#)

Syllabus

No	Topic	Outline
1	A Good First Program	Printing number and string Variables Error in Python
2	Primitive Data Structure	Primitive Data Structure (integer, float, string) Order of Operations (PEMDAS) String
3	Boolean	Boolean Comparisons Boolean Logic
4	Branching	If Else Elif Nested Branching Branching Statements
5	Composite Data Structure	List Dictionary

		Tuples Set
6	Looping	For loop While loop Combining Looping with Branching Loop Control Flow List Comprehension
7	Function I	Function without Parameter Function with Parameters Function with Return statements
8	Function II	Docstring Lambda Function Convert Notebook to Script
9	Object Oriented Programming I	Class Attribute Instance Object Method
10	Object Oriented Programming II	Inheritance
11	Error, Debugging, and Clean Code	Error and Bug on Python Debugging Try, Except, Raise Clean Code
12	Git	Git Git Command
13 - 14	Study Case I (Video Streaming Service)	Case Description Workflow Implementation Test Case Push to Github
15 - 16	Study Case II (Customer Membership)	Case Description Workflow Implementation Test Case Push to Github

Tools

1. Python
2. Git