

Initial Understanding

- 1 Course introduction
- Why Python?

Python setup

- Command Line Basics
- Installing python
- Running Python Code
- 4 Git and GitHub Overview



Python object and data structure basics

- 1 Introduction to Python Data Types
- 1 Lists in Python

Variable Assignments

B Dictionaries in Python

Introduction to Strings

- Tuples with Python
- Indexing and Slicing with Strings
- **10** Sets in Python

String Properties and Methods

111 Booleans in Python

6 Print Formatting with Strings

Python comprasion oprators

- Comparison Operators in Python
- Chaining Comparison Operators in Python with Logical Operators
- Comparison Operators Quiz



Python statemantes

- If Elif and Else Statements in Python
- 2 For loops in python
- While Loops in Python
- Useful Operators in Python
- 6 List Comprehensions in Python

Methodes and functions

- 1 Def Keyword
- Basics of Python Functions
- Logic with Python Functions
- 4 Tuple Unpacking with Python Functions
- Interactions between Python Functions
- *args and **kwargs in Python
- Lambda Expressions, Map, and Filter Functions
- 8 Nested Statements and Scope





Practical Exercise 1

- Displaying Information
- 2 Accepting User Input
- Validating User Input
- Simple User Interaction





Practical exam based on four week learning

Exam



Object orianted programming

- Object Oriented Programming Introduction
- Object Oriented Programming -Special (Magic/Dunder) Methods
- Object Oriented Programming Attributes and Class Keyword
- 6 Object Oriented Programming -Homework
- Object Oriented Programming Class Object Attributes and Methods
- Object Oriented Programming Homework Solutions

- Object Oriented Programming Inheritance and Polymorphism
- B Object Oriented Programming Challenge Solution

Modules and packages

- 1 Pip Install and PyPi
- Modules and Packages
- __name__ and "__main__"

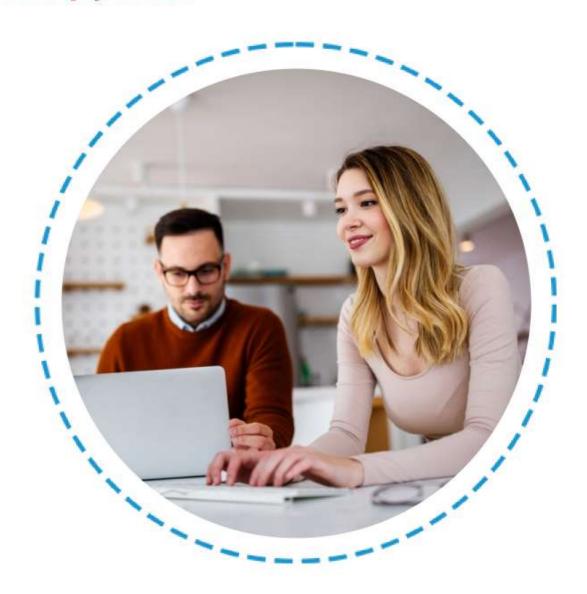
Errors and exceptions handling

- Errors and Exception Handling
- 2 Errors and Exceptions Homework
- Errors and Exception Homework Solutions



Web scraping with python

- 1 Setting Up Web Scraping Libraries
- Python Web Scraping Grabbing a Title
- Python Web Scraping Grabbing a Class
- Python Web Scraping Grabbing an Image



Python generators

Python Collections Module

- Bython Debugger
- Opening and Reading Files and Folders (Python OS Module)
- 6 Python Regular Expressions Part One

Python Datetime Module

Python Regular Expressions Part Two

Python Math and Random Modules

Bython Regular Expressions Part Three

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Exam

Emails with python

- Sending Emails with Python
- Receiving Emails with Python





Working with image with python

- Working with Images with Python
- Python Image Exercises Overview

Working with pdfs and speradesheet csv file

- Working with CSV Files in Python
- Working with PDF Files in Python

advance python object and data structure



- Advanced Numbers
- 2 Advanced Strings
- Advanced Sets
- 4 Advanced Dictionaries
- 6 Advanced Lists

Practical exam based on complete course learning



Exam



Congratulations!

You have successfully completed this course!