

INTRODUCTION AND BASICS

- Introduction
- Interpreter vs. Compiler
- Understanding and Getting to Know Python
- More on Variables and Strings String Formatting
- Displaying Numbers, Variables and Strings

```
- requests.get(url)
               I com the websi
ing response.status_code (if your
 onse.status_code != 200:
 nt(f"Status: {response.status_code
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  BeautifulSoup to parse the respon
 BeautifulSoup(response.content, "h
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= soup.find_all("img", attrs=("alt
Loading images
        images:
```

PROGRAM FLOW CONTROL

- Conditions with IF ELIF ELSE
- FOR Loops
- Understanding CONTINUE and BREAK
- Augmented Assignments
- WHILE Loops
- Nesting Conditions and Loops

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UNDERSTANDING SEQUENCES

- Lists in Python
- Understanding Iterators
- Using Ranges
- Ordered Sets Using Tuples

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UNDERSTANDING MAPPINGS

- Binary and Hex Numbers in Python
- Dictionaries and More
- Sets in Python

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HANDLING FILES, INPUT AND OUTPUT

- Reading and Writing Text Files
- Appending to Files
- Writing Binary Files Manually
- Using PICKLE to Write Binary Files
- Shelves
- Manipulating Data with Shelves
- Updating With Shelves

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HANDLING FILES AND I/O - P1

- Modules and Import
- Standard Python Library
- Time and Date in Python
- Timezones and PYTZ
- Checking Path
- Functions in Python
- Scope in Functions
- Global Variables

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HANDLING FILES AND I/O - P2

- Importing Techniques
- Underscores in Python
- Namespaces
- Recursion
- Nonlocal
- LEGB

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EXCEPTIONS

- Reviews
- Handling Exceptions
- Raising Exceptions
- Customising Exceptions

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OBJECT ORIENTED PROGRAMMING - P1

- OOP and Classes
- Instances, Constructors, Self and More
- Class Attributes
- Methods
- Non Public and Mangling
- DocString and Raw Literals
- Compile Time
- Getters and Properties

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OBJECT ORIENTED PROGRAMMING - P2

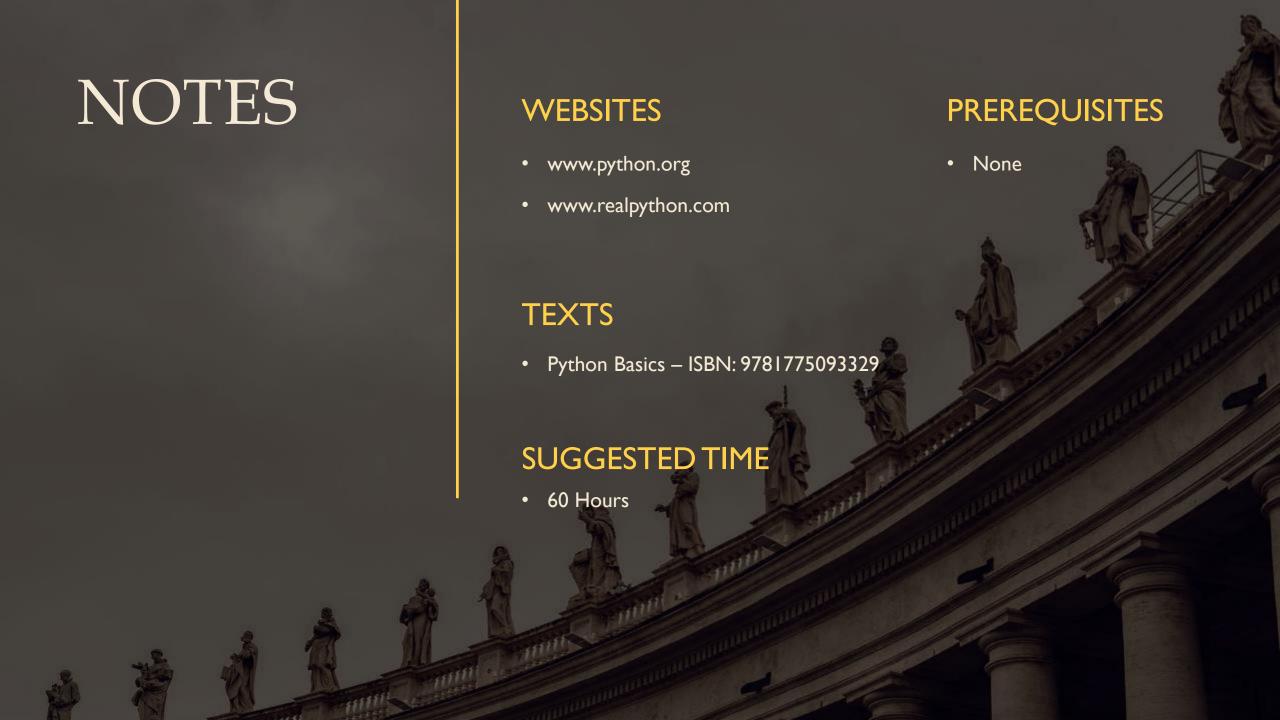
- Getters and Setters
- Encapsulation
- Inheritance
- Subclasses and Overloading
- Calling Super Methods
- Overriding Methods
- Polymorphism
- Duck Test

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OBJECT ORIENTED PROGRAMMING - P3

- Composition
- Aggregation
- Delegation

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DOCUMENT HISTORY

Author	Version	Revision	Date / Time	Department	Validity
Mehdi Shokri	1.0.0		11-05-2023	Development	3 Months
Mehdi Shokri		1.0.1	12-05-2023	Development	3 Months

