

## **Python Getting Started**

- Python Syntax
- Python Indentation
- Python Comments
- Python Variables
- Global and Local Variables
- Exercise

## **Python Data types**

- Strings
  - Functions on Strings
  - Slicing of Strings
  - Concatenation(+) and Repetition(\*) of Strings
  - The in and not in Operators
  - Comparing of Strings
  - Iterating over String
  - Testing of Strings
  - String Searching
  - Converting of Strings
  - Stripping Whitespace Characters
  - Formatting Strings
  - Exercise
- Tuples
  - Accessing Tuple elements
  - Update Tuples
  - Unpack Tuples
  - Loops over Tuples
- Sets
- Dictionaries
  - Adding, Retrieving and Modifying Dictionary values
  - Methods in Dictionary
  - Exercise
- Lists
  - Functions on list
  - Methods in Lists
  - **Exercise**

## **Python Conditions**

- If-statement
- Else-statement
- Elif-Statements
- Nested if and Multi-Way if-elif-else Statements
- Logical Operators
- Exercise

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- If-statement
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## **Loops**

- While-loop
  - The break Statement
  - The continue Statement
- for-loop
  - Nested for-loop
  - Exercise

## **Functions**

## **Objects and Class**

- Inheritance and Polymorphism