Coding with Glen C

This tutorial:
---Python---

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Introduction to Python

Course Outline

- Types in Python
- Dealing with various Types
- Type Conversions
- Input and Output
- Selection statements
- Conditional Statements
- String formatting
- Functions
- Classes
- Some definitions
- Inheritance
- Simple Git commands

Types in Python

- Number – floats, integers
- Boolean
- String

  Compound Types

- Lists
- Tuples
- Dictionaries

Definitions

- Constructor - used to instatiate an an object of a class
- Object – is an instance of a class
- Class – is a template of an object, providing state and behaviour
- Class variable – a variable that is shared among all instances of the class, they are visible to methods existing to that class but not outside
- Data member – class variable / instance variable that holds data associated with a class and its objects
- Instance variable is a variable declared outside constructor,methods,blocks of a class and is non-static

  -accessed after creating an instance of a class with **new

Ending in Style

- Simple Algorithm to take make you competent

- Definition of algorithm

- Fibonnaci

- Factorial

More to Follow

- In the next level we will discuss more on:
- OOP programming
- Design Patterns
- Data Structures and Algorithms
- And much more...
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