**Basic Python Topic**

Day 1 -

* What is Python, why learn Python, Where is python Used.
* History of Python
* Install and Setup for Mac and Windows
* Python Basic Syntax, Python First Program
* Python Variables, Keywords.

Day 2 -

* Python Operators
* Python Comments

Day 3 – Data Types

# Strings - Working with Textual Data

# Integers and Floats - Working with Numeric Data

# Day 4 -

# Lists, Tuples, and Sets

# Dictionaries - Working with Key-Value Pairs

# Day 5 -

# Conditionals and Booleans - If, Else, and Elif Statements

# Loops and Iterations - For/While Loops

# Day 6 -

# Functions

# Import Modules and Exploring The Standard Library

# Setting up a Python Development Environment in Sublime Text

# Day 7 -

# Python Tutorial: pip - An in-depth look at the package management system

# Python Tutorial: virtualenv and why you should use virtual environments

# Python Tutorial: How I Manage Multiple Projects, Virtual Environments, and Environment Variables

# Jupyter Notebook Tutorial: Introduction, Setup, and Walkthrough

# Day 8 -

# Python Tutorial: Slicing Lists and Strings

# Python Tutorial: Comprehensions - How they work and why you should be using them

# Python Tutorial: Sorting Lists, Tuples, and Objects

# Python Tutorial: String Formatting - Advanced Operations for Dicts, Lists, Numbers, and Dates

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# Day 9 -

# Python Tutorial: OS Module - Use Underlying Operating System Functionality

# Python Tutorial: Datetime Module - How to work with Dates, Times, Timedeltas, and Timezones

# Day 10 -

# Python Tutorial: File Objects - Reading and Writing to Files

# Python Tutorial: Automate Parsing and Renaming of Multiple Files

# Python Tutorial: Generate Random Numbers and Data Using the random Module

# Python Tutorial: CSV Module - How to Read, Parse, and Write CSV Files

# Python Tutorial: Real World Example - Parsing Names From a CSV to an HTML List

# Day 11 -

# Python Tutorial: re Module - How to Write and Match Regular Expressions (Regex)

# Day 12 -

# Python Tutorial: Using Try/Except Blocks for Error Handling

# Python Tutorial: Duck Typing and Asking Forgiveness, Not Permission (EAFP)

# Python Tutorial: How to Set the Path and Switch Between Different Versions/Executables (Windows)

# Python Tutorial: How to Set the Path and Switch Between Different Versions/Executables (Mac & Linux)

# Day 13 -

# Python Quick Tip: F-Strings - How to Use Them and Advanced String Formatting

# Python Tutorial: Generators - How to use them and the benefits you receive

# Python Tutorial: Decorators - Dynamically Alter The Functionality Of Your Functions

# Python Tutorial: Decorators With Arguments

# Python Tutorial: Namedtuple - When and why should you use namedtuples?