

Day - 1

- **What is Python?**

- Interpreted languages
- Advantages and disadvantages
- Downloading and installing
- Which version of Python
- Where to find documentation
- Running Python Scripts

- **Structure of a Python script**

- Using the interpreter interactively
- Running standalone scripts under Unix and Windows
- Getting Started

- **Using variables**

- String types: normal, raw and Unicode
- String operators and expressions
- Math operators and expressions
- Writing to the screen
- Command line parameters
- Reading from the keyboard
- Flow Control

- **About flow control**

- Indenting is significant
- The if and elif statements
- while loops
- Using lists
- Using the for statement
- The range() function
- Sequence Data

Day - 2

- **List operations**

- List methods
- Strings are special kinds of lists
- tuples
- sets
- Dictionaries
- Defining Functions

- **Syntax of function definition**

- Formal parameters
- Global versus local variables
- Passing parameters and returning values
- Working with Files

- **Text file I/O overview**

- Opening a text file
- Reading text files
- Raw (binary) data
- Using the pickle module
- Writing to a text file
- Dictionaries and Sets

- **Dictionary overview**

- Creating dictionaries
- Dictionary functions
- Fetching keys or values
- Testing for existence of elements
- Deleting elements
- Errors and Exception Handling