

Introduction:

- History
- Features
- Setting up path
- Working with Python Basic Syntax

Data Types Introduction:

- Words order, unordered, sequential, non-sequential, mutable and immutable.
- Introduction - List, Tuple, String, Dictionaries, Set, Frozenset.
- Accessing - List, Tuple, String, Dictionaries, Set, Frozenset.
- Shallow and deep copy.

Conditional Statements:

- If, If- else and Nested if-else.

Looping:

- For, While and Nested loops, for-else.

Control Statements:

- Break, Continue & Pass.

Functions:

- Defining a function, Calling a function, Function Arguments, Global & local variables.

Higher order functions:

- List, Dict, Generator Expressions/Tuple Comprehension.
- Map, Filter, Reduce, Lambda (Anonymous functions).

File Operation:

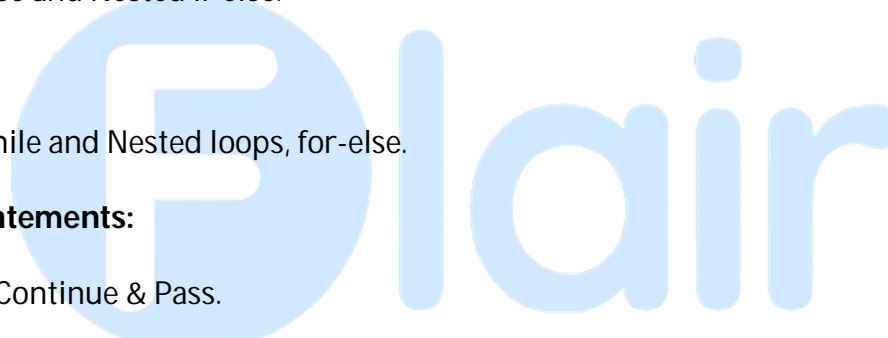
- Open and With open.

Input-Output:

- Printing on screen, Reading data from keyboard.

Parsers:

- Json, Csv, xml, serialization.



Advance Python

OOPs Concept:

- Class
- Object
- Inheritance
- Abstract
- Polymorphism
- Encapsulation

Liked Concepts:

- Types of Methods (Instance, Static, Class)
- MRO
- `__str__`, `__repr__`, `__call__`, `__new__`, `__init__`
- Operator Overloading
- Descriptors (Property - setter, getter)

Modules:

- Module, package, Importing module
- base64
- OS, Sys, Path
- Datetime
- Collections
- Argparse
- Logging
- Email sending
- Pdb and ipdb
- Subprocess
- Async
- Random

Exception Handling:

- Exceptions and Exceptions Handling.
- User Defined Exceptions.

Concepts:

- Iterators, Generators, Closers, Decorators.

Multithreading:

- Thread, Starting a thread, Threading module, Synchronizing threads, Multithreaded, Priority Queue.

Regular expressions:

- Match, Search, findall, split, sub and Patterns.

Database:

- Introduction, Connections, Executing queries, Transactions, Handling error.



Introduction:

- What is Django
- Django and Python
- Django's take on MVC
- How to get and install Django

Getting started with Django (About core three files)

- models.py
- views.py
- urls.py

Migrations:

- Introduction to Migrations
- Data Migrations

Django url patterns and views:

- Designing a Good url Scheme
- Generic Views

Django Forms:

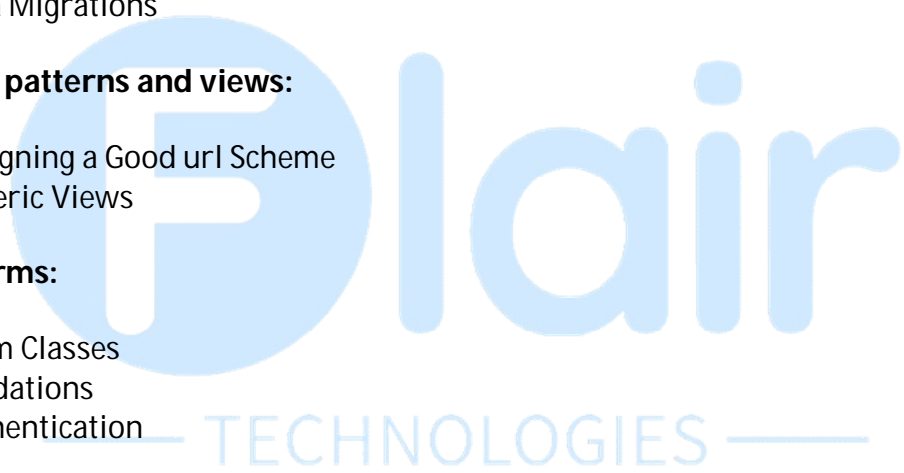
- Form Classes
- Validations
- Authentication

Django and REST API's:

- Django REST-API
- Django Piston

Unit Testing with Django:

- Overview of Unit Testing
- Using Python's Unittest2 Library
- Test
- Test Databases
- Doctests and Debugging best practices



Introduction:

- What is automation?
- What is software testing?
- What is selenium?

What is Webdriver:

- Webdriver components

Webdriver for different browsers:

- Configuring webdriver with different browsers
- Configuring with webdriver_manager

What are locators:

- Normal Locators
- Custom Locators
- Css Selector
- Xpaths
- Function in xpath
- Axes

Forms:

- Textboxes
- Radio button
- Checkboxes
- File upload

Select class:

- Selecting dropdowns

Action chain:

- Drag and drown
- Keyboard actions
- Mouse actions

Tables:

Date picker:



Browser options:

- Headless browser
- Browser popups
- Developer options

Pagination:

Window handling:

Alert popups:

Pytest:

Page Object model:

