



Selenium with Python Syllabus

Introduction

- Why do we need Selenium? (Though, there are many automation tools are available)
- Selenium with Java vs. Python (pros and cons)
- Python Program structure

Python Programming

- Basics of Python
- Functions & Parameters in Python
- Python Data structures and operation
- Python - File Operations
- Python- Modules
- Object Oriented Programming
 - Data Hiding
 - Encapsulation
 - Abstraction
 - Polymorphism
 - Inheritance
 - Constructor

Execution steps

- Environment setup(python, Pycharm, Selenium and etc.,)
- Introduction with Python and Pycharm
- First Script on Selenium

Selenium- Web Driver

- Introduction to Web driver and Remote vs. Local
- Guide to install Web driver
- Creating your first script on Web driver
- Advance Locators (XPATH, Dynamic XPATH Axeses, CSS Selector etc.)
- Accessing Forms in Web driver



- Accessing Links and Table content in Web driver
- Handling Windows, Frames, Alerts and Popups
- Downloading and Uploading of File
- Handling Mouse and Keyboard Events

Automation Framework

- TestNG Annotations and its Advanced Uses
- Data Driven Testing using TestNG
- Assertions in TestNG
- Introduction to Automation Frameworks Design Strategies
- Keyword Driven Framework
- Page Object Model
- **Robot Framework**
- Introduction to pyautogui
- Accessing Flash content using pyautogui
- Report Generation out of Automation