

# Selenium With Python



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## Getting Start With Automation

What is Automation Testing

Manual VS Automation

Tools For Automation Testing

Selenium for Experienced, Manual tester and Selenium for Fresher's  
Discussion in detail

Selenium Introduction

## Python For Selenium

What is Python and features of Python

Different variants of Python and which one we should go for

Python installation and component explanation

Different IDE for Python and Installation/Setup of PyCharm

Download and Install Python

Write and Execute first python program

Reserved Keywords in Python

Data type in Python

Data type conversion in Python



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Operators Arithmetic and Logical operators in Python

Looping statement For loop, while loop, enhanced for Python

Conditional Statement If, If else, Nested if else, Switch statement

1D-Arrays, 2D Array – Array in Detail

Classes, Object in Python Bread, and Butter of all OOPS programming language

Inheritance Single level Inheritance

Constructor- Default constructor and parameterized constructor

Method overloading Compile time Polymorphism

Constructor overloading Compile time Polymorphism

Method overriding Run time Polymorphism

String class and usage in Selenium For Different validation and operation

Numbers in Python

List in Python

Tuple in Python

Dictionary in Python

Exception Handling- Handle Python exception

Debugging in Python How to debug Python application

Modules in Python

Read and write files in Python



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## selenium Basic

Introduction Of Selenium

Selenium IDE

Selenium RC

Selenium Grid

Selenium WebDriver

Get Commands

Navigate Commands

Element Visibility Commands

Other Commands

Selenium WebDriver Command

Tools to identify elements and objects

Google Chrome Developer Tool

Locating elements by ID, Name, LinkText, ClassName.etc

XPath , Types in X-path

Locators Of Selenium (WebDriver)

Handling Pop Up / Alert Window

Drop Down Operations



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Scroll Down/up

Right Click Operation

Advanced Features IN Selenium

Introduction to framework

Use of framework

Different types of framework

Different types of packages in framework

Concept of framework

## Selenium Advance

Pytest -UnitTest Framework

What is Pytest

Write the first test case with Pytest

Setup and TearDown Method with Pytest

Assert in Pytest

Fixtures in Pytest

Running test from the command prompt

Sequencing the test

Reports in Pytest

Create and execute Test Suite in Pytest



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Cross-browser testing in Selenium & Parallel browser testing in Selenium via pytest-xdist

Reading external files

Reading excel via PyExcel

Reading properties file using configparser in Python

Discussion about Design pattern

Design POM – Page Object Model

Selenium Grid - Introduction to Selenium Grid and Usage

### Framework Definitions

Type of Automation framework, usage, features, and myth about the framework

Data Driven Framework from scratch

The different components of the framework

Data Provider Config and Excel Data Provider Test Data and config file

Base Class creation and usage

Creation of library and utilities

Creating Multiple pages with smart locators Creating test cases with multiple assertions



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