

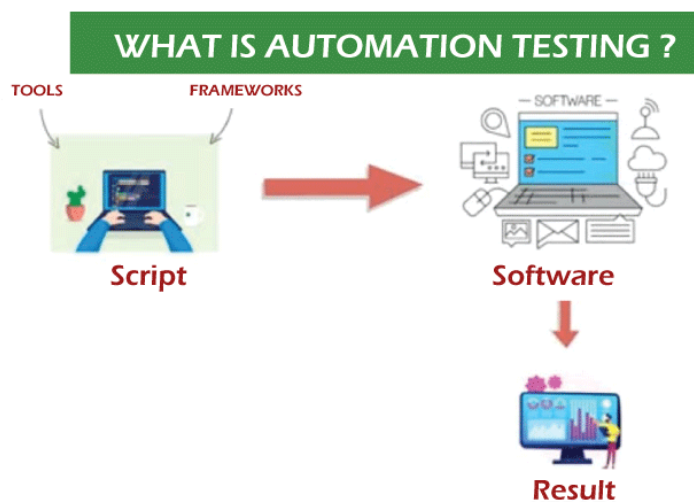
# Advanced Selenium

## Assignments Module – 5 (Selenium IDE)

### 1. What is Automation Testing?

Automate testing refers to any approach that makes it possible to run your tests without human intervention. Traditional testing has been done manually. A human follows a set of steps to check whether things are behaving as expected. By contrast, an **automated test is created once** and then can run any time you need it.

For a long time, developers have automated their unit testing. That is, the tests that check whether a given function is working properly. Then automated testing frameworks like Selenium were developed. These allow modules or entire applications to be tested automatically.



These frameworks allow a test script to interact with your UI, replicating the actions of a user. For instance, they allow you to find a specific button and click it. Or locate a text entry box and fill it out correctly. They also allow you to verify that the test has completed correctly.

As a result, automation testing reduces the time and effort needed for extensive and repetitive testing tasks.

## **2. Which Are the Browsers Supported by Selenium Ide?**

Selenium supports these Browsers:

- Google Chrome.
- Mozilla Firefox.
- Safari.
- Internet Explorer.
- Microsoft Edge.

## **3. What are the benefits of Automation Testing?**

- Saving Costs.
- Faster Feedback Loop.
- Better Allocation of Resources.
- Guarantees Higher Accuracy.
- Increased Test Coverage.
- Detects bugs earlier.
- Test at Scale.
- Maximizes ROI.

## **4. What are the advantages of Selenium?**

### **Advantages of Selenium for Automated Testing**

- Language and Framework Support. ...
- Open-Source Availability. ...
- Multi-Browser Support. ...
- Support Across Various Operations. ...
- Ease of Implementation. ...
- Reusability and Integrations. ...
- Flexibility. ...
- Parallel test execution and faster market launch.

## **5. Why should testers opt for Selenium and not QTP?**

### **Features of Selenium**

- Open-source tool is that performs a very specific task, in which the source code is openly published for use and modification from its original design, free of charge.
- Frequent regression testing.
- Rapid feedback to developers.

- Virtually unlimited iterations of test case execution.
- Support for Agile and extreme development methodologies.
- Disciplined documentation of test cases.
- Customized defect reporting.
- Finding defects missed by manual testing.

### **Selenium has four Components**

- Selenium-IDE
- Selenium RC
- Selenium WebDriver
- Selenium Grid

### **Selenium Supported Languages**

- Java
- C#
- PHP
- Python
- Perl
- Ruby

## QTP Advantage & Disadvantage

- **Definition** - It is a type of desktop application.
- **Open-source** - License is required.
- **Resource Consumption** - In QTP there is a high resource consumption.
- **Community Support** - Dedicated customer support from HP (Hewlett Packard) for QTP
- **Languages Supported** - QTP supports VB Script.
- **User-friendly** - QTP is user-friendly.
- **Technical Support Services** - It has technical support services.
- **Browsers Supported** - Browser supported in QTP are specific versions of Google Chrome, Mozilla Firefox and Internet Explorer.