# Module – 5 (Selenium IDE)

1. What is Automation Testing?

* Automation testing is a software testing technique that uses automated tools and scripts to perform tests on a software application, instead of manual testing. It involves writing test scripts to validate the functionality, performance, and reliability of an application. These automated tests can be run repeatedly without human intervention, which saves time, reduces human errors, and helps with faster feedback during the development process.
* Automation testing is commonly used for tasks like:

**Regression Testing**: Ensuring that new changes don’t break existing functionality.

**Performance Testing**: Checking how the application behaves under load or stress.

**Smoke and Sanity Testing**: Verifying that the application is stable enough for more extensive testing.

**Repeated Testing**: Running the same tests multiple times to check for consistency.

**Data-driven Testing**: Testing with multiple data sets without changing the test scripts.

1. Which Are the Browsers Supported by Selenium Ide?

* Selenium IDE supports the following browsers:

1. Google Chrome: Selenium IDE is available as a Chrome extension, which can be used to record and playback tests directly in the Chrome browser.
2. Mozilla Firefox: Selenium IDE was originally developed for Firefox and remains a supported browser through its Firefox extension.
3. Safari and Microsoft Edge can be automated using the main Selenium WebDriver (not IDE), which requires more manual coding, but these are not supported directly by Selenium IDE.
4. What are the benefits of Automation Testing?

* Automation testing offers several key benefits that help improve the efficiency, accuracy, and effectiveness of the testing process. Some of the main advantages include:

1. Faster Execution
2. Reusability
3. Consistency and Accuracy
4. Cost-Effective in the Long Run
5. Faster Feedback and Continuous Integration
6. Increased Test Coverage
7. 24/7 Availability
8. Supports Complex Test Scenarios
9. Improved Resource Utilization
10. Better Documentation

1. What are the advantages of Selenium?

* Selenium is one of the most popular tools for automating web browsers, and it offers several advantages for software testing. Here are some of the key benefits:

1. Open-Source and Free
2. Supports Multiple Programming Languages
3. Cross-Browser Compatibility
4. Cross-Platform Support
5. Integration with Other Tools
6. Flexible and Scalable
7. Community and Support
8. Why testers should opt for Selenium and not QTP?

* supports a wide range of programming languages QTP/UFT test scripts run only on the Windows environment
* It's Free: Selenium is open-source and completely free, while QTP (UFT) is expensive and requires a paid license.
* Works with More Browsers: Selenium works with multiple browsers (Chrome, Firefox, Safari, etc.), making it better for testing across different platforms. QTP supports fewer browsers.

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