What is Automation Testing?

Automated testing is a process that validates if software is functioning appropriately and meeting requirements before it is released into production.

This software testing method uses scripted sequences that are executed by testing tools.

Which Are the Browsers Supported By Selenium Ide?

1. Google Chrome
2. Mozilla Firefox

What are the benefits of Automation Testing?

1. **Automated Testing Saves Time and Money**
   Manual testing is done on a software each time it is modified and it is done on whole software it is time consuming and costly. Automated software testing can reduce the time to run repetitive tests from days to hours. A time savings that translates directly into cost savings.

2. **Vastly Increases Your Test Coverage**
   Automation can improve the software, checks functionality faster and provides complex test coverage easy. Which is not possible compare to manual testing. Automation can be done on complex tests to get faster checks on the product.

3. **Testing Improves Accuracy**
   Automated tests perform the same steps precisely every time they are executed and never forget to record detailed results. Testers freed from repetitive manual tests have more time to create new automated software tests and deal with complex features.

4. **Automation Does What Manual Testing Cannot**
   Automated testing can simulate tens, hundreds or thousands of virtual users interacting with a network, software and web applications. Automation provides scalable tests faster.

5. **Automated Testing Helps Developers and Testers**
   Tests can run automatically whenever source code changes are checked in and notify the team or the developer if they fail. Features like these save developers time and increase their confidence.

6. **QA and Dev Team Morale Improves**
   Executing repetitive tasks with automated software testing gives your team time to spend on more challenging and rewarding projects. Team members improve their skill sets and confidence and, in turn, pass those gains on to their organization.

What are the advantages of Selenium?

- Selenium is an open-source automation testing tool and it is free of cost to use.
- Selenium provides high tester flexibility to write advanced and complex test cases.
- Supports test scripts written in any user-preferred languages such as C#, Java, Perl, PHP, Python, and Ruby
- Supports test case execution on multiple operating systems such as Windows, Linux, Android, Mac, and iOS.
- Supports testing on different web browsers such as Chrome, Firefox etc.
- Test cases can be executed while the browser window is minimized.
- Selenium supports parallel test execution.
- Selenium can be integrated with TestNG and JUnit to generate test reports and manage test cases.
- Selenium can be integrated with Jenkins, Docker, and Maven to attain continuous testing.

Why testers should opt for Selenium and not QTP?

Selenium, supports a wide range of programming languages while QTP does not .

Selenium is OS independent and allows test scripts to run across all browsers. QTP test scripts run only on the Windows environment

QTP does not support different IDEs. Selenium does.

Selenium is open source. QTP is Licensed.

Selenium can run tests synchronously with the integration of test frameworks such as TestNG.

Selenium Allows all additional plugins.

That is why testers should opt for Selenium and not QTP.