**What is Automation Testing?**

* Automation testing is making script for testing software or product with the help of tools and framework, after that in few minute it will show the result how many errors are generated in testing software.
* Automation testing is faster than manual testing.
* In automation testing result generate automatically using tools and framework.
* Using manual testing find defects and error but it is time consuming, as compare to automation testing it is time saving testing and give accurate result.
* In automation testing writing computer program to do testing, otherwise you must follow the manual testing.
* We need automation testing because this are provide better feature and that are following…
  + Speed:- Using automation testing finding defects fast and getting accurate result.
  + Reliable:-If same defects and error repeat once again then tester can do in this testing
  + Repeatable:-In this feature we can test how application reacts after repeated execution of the same process.
  + Comprehensive:- We can build every tests that can cover whole application.
  + Reusable:- We can reuse of any test in different version of software and execute.
  + Automation testing is a team work testing too.

**Which are the browsers supported by Selenium IDE?**

* Selenium IDE stands for Integrated Development Environment.
* Selenium is the easiest platform to learn selenium suite.
* It is a Google chrome plug-in that can install easily and work into this IDE.
* Selenium IDE is the major tool in selenium suite a complete integrated development Environment for selenium test.
* This tool supported in Firefox Add-On and as a Chrome Extension.
* This IDE is allowed for recording, editing, and debugging or functional test.
* Working with IDE is a very simple we have to enter to give the URL of the website on which we have to create tests.
* Google Chrome
* Firefox
* Opera
* Safari
* Above all browser are supported for this tool.

**What are the benefit of Automation Testing?**

Save Time:-

Using automation testing tool tester can work fast, and it is fetching error automated. This tool display error automated that’s why tester have no need to make any manually work like test cases and other reports.

Accuracy Important:-

When using automation tool than tester can getting accurate result because of In this tool functionality checked by system or automation tool. Using this tool product can make without any error and work according client requirement.

Test suite Reusability :-

We can reuse the test scripts in automation testing, and we don’t need to make new scripts again and again. Reusability helps to reduce cost and also eliminate the chance of human error.

Ability to test on various platforms:-

Automation testing allows the users to test application on different web browsers and operating system.

Productivity Improvement:-

Software developers and tester require less time on automation testing.

**What are the advantages of Selenium?**

Open Source:

A major benefit of selenium is it is open source, it is provide all feature of QTP and relatively more. It is completely free of cost.

Language Support:-

Web driven is support all the programming language that tester should know of such like python, php, java, Ruby, C#, JavaScript. It is also offer to binding programming language.

Work across multiple OS:-

This feature is support all operating system of automation in testing of web driver. It is support all the major browser so you could test on chrome, Firefox, Safari, Opera, etc.

Cross Devise Testing:-

Support across multiple devise is another major benefit of automation testing with selenium web driver.

Easy to Implement:-

Web driver is user friendliness. The tool is open source. It allows users to script their personalized extensions which allows them to develop actions that are customized and can be manipulated once the user reaches at advanced level.

**Why testers should opt for Selenium and not QTP?**

|  |  |
| --- | --- |
| Selenium | QTP |
| It is open Source. | It is require license. |
| It is a set of APIs. | It is a type of application. |
| There is low resource consumption during test scripts execution. | In QTP there is a high resource consumption. |
| Community support through selenium forums. | Dedicated customer support from hp for QTP |
| Some supported environments in selenium are Android, iOS, Windows, Linux,Mac. | QTP support only windows. |
| It is supports automation for web based applications. | There is support for both web and desktop based application. |
| Java, c#, Ruby, python, php ,etc | QTP support VB script |
| All additional plug-in are allow in Selenium | In QTP, it support SAP, Oracle, and includes no add-ons to the software. |
| Recovery Scenario is absent in selenium | There is in built-in recovery scenario in QTP. |

**Question 6**

* Upload side file in GITHUB…