**Which components have you used in load runner?**

Load runner is a mercury interactive tool that can predict the performance and behavior of the system.

By creating the lost of load, you can see how the system can react at peak level or with multiple users.

To test the application, load runner emulates an environment where multiple users work correctly.

Load runner components are following

* Virtual User generator
* Controller
* Analyser

**Virtual User Generator:-**

Generate itrecords Vuser scripts that emulate the step of real users using the application.

Controller:-

It is a administrative center for creating, maintaining, and executing scenarios.

Start and stop load tests, and perform other administrative tasks.

Analyser:-

Uses the load test results to create graphs and reports that are used to correlate system information and identify both bottleneck and performance issues.

**How can you set the number of Vusers in Load Runner?**

On the performance test run page,

Select more > Add group

After add group one dialog box opens after that

Enabling you to add a Vuser group.

Enter a group name> select a script >Enter the number of Vuser to run.

**What is Correlation?**

* Correlation plays a crucial role in the success of a load runner script it.
* It handles dynamic values that change with each run of the script.
* These values, such as session IDs or server timestamps, are generated by the server and can’t be predicted.
* Following are the common values that require correlation
  + Session ID
  + Access Token
  + Customer Name/ ID
  + Order Name
  + Bill number
  + Number of records displayed on a page
  + Current data and time

**What is the process for developing a Vusers scripts?**

Following steps are for create Vusers scripts.

1. Record the Vuser scripts.
2. Playback and improve the recorded vuser script.
3. Define and test the different run-time parameters.
4. Use the script in a load runner scenario.

**How load runner interacts with the application**

* Load runner interacts with application, load runner simulates user activity by generating message between application components or by simulating interactions with the user interface such as key presses or mouse movements.
* The messages and interactions to be generated are stored in scripts.

**What is the relationship between Response Time and Throughput?**

* Response time and throughput are related. The response time for an average transaction tends to decrease as you increase overall throughput.
* When user try to a large amount than response time and throughput becomes evident when you try to balance the ongoing need for high transaction throughput with a immediate need to perform a large decision-support query.
* When response time decrease for a specific query at that time expense of overall throughput, by allocating a insufficient amount of resources to that query.
* If more resources apply to that query, the fewer you have available to process transactions.

**What is automation testing?**

Commonly**,** test automation processinvolves automation in manual already in place that uses a formalized testing process.

In automation write a code and doing testing that should be done must be.

In automation is fasted tool for testing with programing and getting accurate result.

Using automation testing reduce the risk when after release the project.

Every testing using automation need to be execute of every build of application.

**Which are browser supported by Selenium IDE?**

Currently, Firefox, Chrome, Edge, IE, and safari are supported and the Selenium IDE has great documentation on how to configure your environment.

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

**Advantages:**

* With automation tester can increase the speed of testing modules
* With automation increase the programming capability.
* With automation spread the coverage.
* With automation tester understand easily.
* With automation tester can save time and cost.
* Early time to market.
* Reusable test script.
* Improve accuracy.
* Test frequently and thoroughly
* Better speed in executing tests.

**What are the advantages of Selenium?**

* Advantages of selenium are following…
  + Language and framework supported
  + Open source availability
  + Multi browser supported
  + Supported cross various operation
  + Ease of implementation
  + Reusability and Integration
  + Flexibility
  + Parallel test Execution and faster market launch

**Why tester should opt for selenium and not QTP?**

OPT is open source that can user can easily install, as compare to QTP is not open source.

OPT is a set of APIs, as compare to QTP It is a type of desktop.

In OPT low level resource consumption during test script execution, as compare to QTP very high resource is required.

OPT support community support through Selenium forums, as compare dedicated customer support from HP.

In opt element for parameterization on any one of the supported programming language, as compare to QTP for parameterization built-in tools are available.