**Module-5 (Load Runner Up and Selenium IDE)**

* **Which components have you used in Load Runner?**

Virtual user generator, or VuGen, for generating and editing scripts. Controller, which controls, launches and sequences instances of Load Generator, specifying which script to use and for how long, and receiving real-time monitoring data and displays status during runs.

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

You can set the number of Vusers in the controller section while creating your scenarios. Many other advanced options like ramp-up, ramp-down of Vusers are also available in the Controller section.

* **What is Correlation?**

The word correlation is used in everyday life to denote some form of association. We might say that we have noticed a correlation between foggy days and attacks of wheeziness. However, in statistical terms we use correlation to denote association between two quantitative variables.

* **What is the process for developing a Vuser Script?**

There are 5 steps for developing a vuser script.

* recording the vuser script .
* edit the vuser script.
* runtime setting .
* run the vuser script in stand-alone mode.
* incorporate the vuser script into a load runner scenario.
* **How Load Runner interacts with the application?**
* LoadRunner is a software testing tool from Micro Focus. It is used to test applications, measuring system behaviour and performance under load. LoadRunner can simulate thousands of users concurrently using application software, recording and later analyzing the performance of key components of the application.
* **How many VUsers are required for load testing?**
* For example, if you run a load test with 10,000 virtual users, each making a request every 20 seconds (3 requests per minute), then you're making 30,000 requests per minute, which equals 500 requests per second.
* As you can see in the calculation above, you can decrease the number of users and increase the number of requests per minute per user and still have the same requests per minute. For example, here are a few scenarios that all generate 30,000 requests per minute:
* (10,000) x (3) = 30,000  
  (5,000) x (6) = 30,000  
  (1,000) x (30) = 30,000  
  (10) x (3,000) = 30,000
* Considering that cost is often proportional to the number of concurrent [virtual users](http://techbeacon.com/virtual-testing-how-build-army-testers-cloud), the question arises: Instead of testing with 10,000 virtual users and 3 requests per minute, can you test with fewer users and more requests per second and get the same test results? After all, you're hitting the back end with the same total number of requests per minute.
* **What is the relationship between Response Time and Throughput?**
* The response time for an average transaction tends to decrease as you increase overall throughput. However, you can decrease the response time for a specific query, at the expense of overall throughput, by allocating a disproportionate amount of resources to that query.
* **What is the difference between hits/second and requests/second?**
* Hits/second are the number of HTTP requests made by VUsers to the Web Server in a scenario or session step run on a per second basis. Requests/second are the number of requests completed during each second of scenario run
* **To test the Performance testing on “Tops Technologies website” :- https://www.tops-int.com/**

**1. to Record all top level menu**

**2. to Record minimum 10 Vuser on this website**

**3. save all (Script,Design,Graph)**

**10. create a normal script of above website with correlate using hp default website.**

**(Selenium IDE)**

1. **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.

1. **Which Are The Browsers Supported By Selenium Ide?**

Selenium IDE has add-ons for Firefox and Chrome browsers. Selenium IDE comes with a rich set of commands that are powered by Selenese and it allows you to record and test different interactions of a web application with the browser.

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

Test automation reduces the instances of human errors, generating consistent and reliable results every time. This means higher quality, reduced bug-fixing cost, lesser effort, and higher productivity for teams

1. **What are the advantages of Selenium?**

Selenium is the most popularly used freeware and open source automation tool. The benefits of Selenium for Test Automation are immense. Importantly, it enables record and playback for testing web applications and can run multiple scripts across various browsers.

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

With QTP, it supports VB scripting language whereas Selenium offers more power and flexibility. Therefore, those using Java, . net, Python and Ruby can use Selenium since it accommodates all these scripting languages.

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**1. To use assert**

**2. To use click and wait**

**3. To use locators**

**4. To use other command**