* **Software Testing Assignment**

**Module-4 (Automation Core Testing (Load Runner Up and Selenium IDE))**

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

* Virtual User Generator
* Controller
* Load generator
* Agent process
* Analysis

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

* You can set the numbers of Vusers in the controller section while creating your scenario.
* Many other options like ramp-up, ramp-down of vusers are also available in the controller section.

**3.What is Correlation?**

* A statistical tool that helps in the study of the relationship between two variables is known as **Correlation.**
* It also helps in understanding the economic behaviour of the variables.

**4.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.

**5.How Load Runner interacts with the application?**

* Protocol is used in Load Runner to interact with the application.

**6.How many VUsers are required for load testing?**

* 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.

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

* Response time and throughput are related.
* Throughput and Response times are inversely proportional.
* With increase in response time throughput should decrease.
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**8.What is Automation Testing?**

* **Automation Testing** is a software testing technique that performs using special automated testing software tools to execute a test case suite.
* The automation testing software can also enter test data into the System Under Test, compare expected and actual results and generate detailed test reports.

**9.Which Are the Browsers Supported by Selenium Ide?**

* The supported browsers include Mozilla Firefox, Google Chrome, Microsoft Edge, Safari, and Opera, among others.

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

* Save Time
* Productivity Improvement
* Accuracy Improvement
* Test suit reusability
* Ability to test on various platforms
* Running test 24/7
* Early bug detection
* Less human resource
* Reduce the expenses
* Scalability of test cases
* Consistency
* Fast development and delivery

**11.What are the advantages of selenium?**

* 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 ...

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

|  |  |
| --- | --- |
| SELENIUM | QTP |
| Open source, free to use, and free of  charge. | Commercial |
| Highly extensible | Limited add-ons |
| Can run tests across different browsers | Can only run tests in Firefox , Internet  Explorer and Chrome |
| Supports various operating systems | Can only be used in Windows |
| Supports mobile devices | Supports mobile devise using 3rd party  software |
| Can execute tests while the browser is minimized | Needs to have the application under test to be visible on the desktop |
| Can execute tests in parallel | Can only execute in parallel but using Quality Center Which is againast paid product |