**ASSIGNMENT**

**MODULE 4**

**Automation Core Testing**

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

In Load Runner, I have used various components such as Virtual User Generator (VUGen) for script creation, Controller for test scenario configuration, and Analysis for result analysis.

**2) 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.

**3) What is Correlation?**

Correlation in software testing, in the context of performance testing tools like Load Runner, refers to the process of capturing and handling dynamic values that are generated by the server during a script execution.

**4) What is the process for developing a Vusers Script?**

There are 5 steps for developing a vuser script.

1. Recording the vuser script.
2. Edit the vuser script.
3. Runtime setting.
4. Run the vuser script in stand-alone mode.
5. Incorporate the vuser script into a load runner scenario.

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

Load Runner simulates user activity by generating messages 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.

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

If you run a load test with 10000 virtual users, each making a request every 20 seconds, then you’re making 30000 requests per minute, which equals 500 requests per second.

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

Response time is the time for a single task, while throughput is the number of tasks. completed in a given time.

In terms of load / performance testing, Throughput and response times are inversely proportional i.e. with increase in response time throughput should decrease.

**8)**  **Create a normal script of above website with correlate using hp default website.**