TOPS TECHNOLOGIES

**Software testing assignment**

**Module-5(Selenium IDF)**

**1 What is Automation Testing?**

= Test automation is the use of software to control the execution of tests, the comparison of actual outcomes to predicted outcomes, the setting up of test preconditions, and other test control and test reporting functions.

**2 Which Are the Browsers Supported By Selenium Ide?**

= Firefox browser, chrome, internet explorer, safari, edge and opera browser.

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

= 1. 70% faster than the manual testing ,Wider test coverage of application features

2. Reliable in results

3. Ensure Consistency

4. Saves Time and Cost

5. Improves accuracy

6. Human Intervention is not required while execution

7. Increases Efficiency

8. Better speed in executing tests

9. Re-usable test scripts

10. Test Frequently and thoroughly

11. More cycle of execution can be achieved through automation

12. Early time to market

**4 What are the advantages of Selenium?**

= 1. Very easy to use and install

2. No programming experience is required, through knowledge of HTML and DOM are

3. Needed Can export tests to formats usable in Selenium RC and WebDriver

4. Has built-in help and test results reporting module.

5. Provides support for extensions.

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

= Selenium:

- Open source, free to use, and free of charge.

- Highly extensible

- Can run tests across different browsers

- Supports various operating systems

- Supports mobile devices

- Can execute tests while the browser is minimized to be visible on the desktop.

- Can execute tests in parallel.

QTP:

-Commercial.

-Limited add-ons.

-Can only run tests in Firefox, Internet Explorer and Chrome.

-Can only be used in Windows.

-Supports mobile devise using 3rd party software.

-Needs to have the application under test.

-Can only execute in parallel but using Quality Center which is again a paid product.