**Module -7**

**• What is Automation Testing?**

* **Test automation is the use of s/w to control the execution of test the comparison of actual outcomes to predicted outcomes. The setting up of test preconditions, and other test control and test reporting functions.**

**Test automation aims to increase the efficiency and effectiveness of testing by reducing human errors, saving time and improving test coverage.**

**• Which Are the Browsers Supported by Selenium Ide?**

* **The supported browsers include Mozilla Firefox, google chrome, Microsoft edge, safari and opera, among others.**

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

1. **70% faster than the manual testing**
2. **Wider test coverage of application features**
3. **Reliable in results**
4. **Ensure consistency**
5. **Saves time and cost**
6. **Improves accuracy**
7. **Human intervention is not required while execution**
8. **Increases efficiency**
9. **Better speed in executing tests**
10. **Re-usable test scripts**
11. **Test frequently and thoroughly**
12. **More cycle of execution can be achieved through automation**
13. **Early time to market**

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

* **Advantage: -**
* **It supports C#, PHP, JAVA, Perl, Python.**
* **It supports different OS like windows, Linux and Mac OS.**
* **It has got powerful methods to locate elements (Xpath, DOM, CSS)**
* **It has highly developer community supported by google.**

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

* **Selenium is more popular than QTP as**
* **selenium is an open source whereas QTP is a commercial tool.**
* **Selenium is used specially for testing web-based applications while QTP can be used for testing client server application also.**
* **Selenium supports Firefox, IE, Opera, Safari on operating systems like windows, Mac, Linux etc. however QTP is limited to internet explorer on windows.**
* **Selenium supports many programming languages like ruby, Perl, python, whereas QTP supports only VB script.**

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