Module : 5(Automation and Selenium)

1. What is Automation testing ?

:- Automation testing is the use of software tools and scripts to automatically execute test cases during software development and quality assurance. By creating automated test cases, we improve efficiency, effectiveness, and test coverage while reducing human errors and saving time.

1. What are the benefits of Automation testing ?

:- The benefits of Automation testing is following :

* + - It is 70 % faster than manual testing.
    - Wider test coverage of application features.
    - It is reliable in result.
    - It ensures consistency.
    - It saves time and cost.
    - It improves accuracy and increases efficiency.
    - More cycle of execution can be achieved through automation.
    - Human intervention is not required while execution.

1. What are the advantages of selenium ?

**:- Advantages**

* It is very easy to use and install.
* No programming experience is required, though knowledge of HTML and DOM are needed.
* It can export tests to formats usable in Selenium RC and web driver.
* It has built-in help and test results reporting module.
* It provides support for extensions.

1. Which are the browsers supported by Selenium IDE ?

:- The latest version of Selenium IDE supports the following browsers :

1. Firefox Browser
2. Chrome Browser
3. Why Testers should opt for Selenium and not QTP?

:- **Reasons :**

1. **Cost :** Selenium is an open source tool, which means it is free to use. QTP, on the other hand, is a commercial tool that requires a licence, making it more expensive.
2. **Programming Language Support** : Selenium supports multiple programming languages such as Java, Python, C#, Ruby, and JavaScript. This flexibility allows testers to Write test scripts in the language they are most comfortable with. QTP primarily supports VBScript.
3. **Browser and OS support** : Selenium supports a wide range of browsers(Chrome, Firefox, Safari, etc..) and operating systems (windows, macOS, Linux). QTP is limited to Windows OS and supports fewer Browsers.
4. **Community and documentation :** Selenium has a large and active community, which means there are plenty of resources, tutorials, and forums available for support. This makes it easier for testers to find solutions to their problems. QTP has a smaller community in comparison.