Adv. Selenium - Introduction To Automation

* What is Automation Testing?
* Automation testing is a software testing technique that uses specialized tools and scripts to execute tests automatically, rather than manually. The primary goal of automation testing is to improve the efficiency, speed, and accuracy of the testing process.
* Which are the browsers supported by Selenium IDE?
* **Google Chrome**
* Selenium IDE is available as a Chrome extension. You can install it directly from the Chrome Web Store and use it to record and run tests within the Chrome browser.
* **Mozilla Firefox**
* Selenium IDE was initially developed for Firefox and remains fully supported as a Firefox extension. It can be installed from the Firefox Add-ons site.
* **Microsoft Edge**
* Selenium IDE also supports Microsoft Edge (Chromium-based). Users can install the extension from the Edge Add-ons website.
* What are the benefits of Automation Testing?
* **Speed**–Automation Scripts run very fast when compared to human users
* **Reliable**–Tests perform precisely the same operations each time they are run, thereby eliminating human error.
* **Repeatable**–We can test how the application reacts after repeated execution of the same operation
* **Comprehensive**–We can build a suite of tests that covers every feature in our application
* **Reusable**–We can reuse tests on different versions of an application, even if the user interface changes.
* Automate your testing procedure when you have lot of regression work.
* Automate your load testing work for creating virtual users to check load capacity of your application.
* What are the advantages of Selenium?
* Open Source
* Supports all browsers like IE, Firefox, Mozilla, Safari
* Supports all Operating Systems.
* Supports all programming languages Java,Ruby,C# and Python.
* Run multiple tests at a time.
* Why testers should opt for Selenium and not QTP?
* Testers might choose Selenium over QTP because of the following reasons as follows:

1. Open-Source and Cost.
2. Browser and Platform Support.
3. Language Support.
4. Community Support and Ecosystem.
5. Integration with CI/CD Pipelines.
6. Scalability.
7. Customization and Extensibility.
8. Support for Modern Web Applications.

Thank you