1.<u>What is Automation Testing</u> :

- Automation testing is a software testing technique that uses specialized tools and scripts to automatically perform tests on a software application. The goal of automation testing is to improve the efficiency, effectiveness, and coverage of the testing process, while reducing human intervention and errors**.**

2. <u>Which Are The Browsers Supported By Selenium Ide</u> :

Selenium IDE was initially developed for Firefox and Chrome. These are the only two browsers officially supported with browser extensions available for them.

- **Google Chrome** (via the Chrome extension)
- **Mozilla Firefox** (via the Firefox extension)

3.<u>What are the benefits of Automation Testing</u> :

- 70% faster than the manual testing
- Wider test coverage of application features
- Reliable in results
- Ensure Consistency
- Saves Time and Cost
- Improves accuracy
- Increases Efficiency
- Better speed in executing tests
- Reusable test scripts
- Test Frequently and thoroughly
- More cycle of execution can be achieved through automation
- Early time to market

4. What are the advantages of Selenium :

- Cost-effective (free and open-source)
- Cross-browser testing support
- Multi-language support
- Cross-platform compatibility
- Integration with CI/CD tools
- Parallel test execution with Selenium Grid
- Easy integration with testing frameworks
- Large community and support resources
- Mobile testing support via Appium

5.Why testers should opt for Selenium and not QTP :

Selenium	QTP
Open source, free to use, and free of charge.	Commercial.
Highly extensible	Limited add-ons
Can run tests across different browsers	Can only run tests in Firefox , Internet Explorer and Chrome
Supports various operating systems	Can only be used in Windows
Supports mobile devices	Supports mobile devise using 3rd party software
Can execute tests while the browser is minimized to be visible on the desktop	Needs to have the application under test
Can execute tests in parallel.	Can only execute in parallel but using Quality Center which is again a paid product.