1. Explain the difference between Selenium IDE, Selenium WebDriver, and Selenium Grid
   * Selenium IDE is a record-and-playback tool primarily used for creating and running Selenium scripts
   * Selenium WebDriver is a programming interface that allows developers to write code in various programming languages (Java, Python, etc.) to interact with web browsers and automate testing.
   * Selenium Grid is a tool used for parallel test execution by distributing test scripts across multiple machines, allowing tests to run simultaneously on different browsers and platforms.

3. What is Selenium? How it is useful in Automation Testing?

Selenium is an open-source framework for automating web applications. It provides a suite of tools, including Selenium WebDriver, Selenium Grid, and Selenium IDE, allowing testers to automate interactions with web browsers and perform functional testing .

4 . What are all Browser drivers used in Selenium?

Selenium supports various browser drivers to automate web applications commonly used in browser

1. ChromeDriver: Used for Google Chrome browser.
2. GeckoDriver: Used for Mozilla Firefox browser.
3. WebDriver for Microsoft Edge: Used for Microsoft Edge browser.
4. OperaDriver: Used for Opera browser.
5. InternetExplorerDriver: Used for Internet Explorer browser

5. What Are The Steps To Create A Simple Web Driver Script? Explain with code.

**package** day18;

**Import Statements:**

**import** org.openqa.selenium.By;

**import** org.openqa.selenium.Keys;

**import** org.openqa.selenium.chrome.ChromeDriver;

**Class Declaration:**

**public** **class** LaunchBrowser {

**Main Method:**

**public** **static** **void** main(String[] args) {

**WebDriver Initialization:**

ChromeDriver driver = **new** ChromeDriver();

**Chromedriver interact with chrome browser**

**Navigate to URL:**

// load URL

driver.get("https://www.google.co.in/");

**Opens the Google website by navigating to the selected URL.**

**Maximize Browser :**

// maximize browser

driver.manage().window().maximize();

**Maximizes the browser to full screen.**

**Find Element and Enter Text:**

driver.findElement(By.*name*("q")).sendKeys("Selenium Browser Driver", Keys.***ENTER***);

**Close Browser:**

// close the browser

driver.close();

}

}