Testing Facebook Account Creation using Selenium WebDriver

AIM:

To write a Selenium Java WebDriver script to automate the process of testing the Facebook account creation page.

Tools Required:

1. Java Development Kit (JDK) 8 or higher
2. Eclipse IDE or any Java IDE
3. Selenium WebDriver (Latest version)
4. Browser Driver (ChromeDriver, GeckoDriver, etc.)
5. Facebook Account Creation URL: https://www.facebook.com/r.php

Theory:

Automating the registration page for any web application is one of the most common tasks in testing. By using Selenium WebDriver, we can fill in the details on the Facebook sign-up page, and perform validation checks on the title or page after submission. This helps us verify whether the form is functioning properly or not.

Test Case Design: The script will perform the following actions:

- Open the Facebook sign-up page.
- Fill in the required fields like name, email, password, birthday, and gender.
- Click on the sign-up button.
- Verify that the form submission was successful or that the page redirects correctly.

Fields to be Automated:

- **First Name**
- **Last Name**
- **Mobile number or email**
- **Password**
- **Date of Birth**
- **Gender**

Dropdown Handling: The Date of Birth field contains dropdown elements for Day, Month, and Year. We will handle these using Selenium's `Select` class.

Action to be Performed: After filling the form, we will simulate a button click

on the "Sign Up" button.

```java
Package   fbaccount;
package locators;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
public class facebook {

    public static void main(String[] args) {
// Step 1: Set up the WebDriver (e.g., ChromeDriver)
System.setProperty("webdriver.chrome.driver", "c://chromedriver.exe");

// Step 2: Create an instance of WebDriver
WebDriver driver = new ChromeDriver();

// Step 3: Navigate to the Facebook sign-up page
    driver.get("https://www.facebook.com/r.php");

 // Step 4: Maximize the browser window
    driver.manage().window().maximize();

 // Step 5: Fill in the first name
    WebElement fName = driver.findElement(By.name("firstname"));
    fName.sendKeys("PBRVITS");

 // Step 6: Fill in the last name
    WebElement lName = driver.findElement(By.name("lastname"));
    lName.sendKeys("ENGG College");

 // Step 7: Fill in the mobile number or email
    WebElement mobileOrEmail = driver.findElement(By.name("reg_email__"));
    mobileOrEmail.sendKeys("pbrvits@gmail.com");

 // Step 8: Fill in the password
    WebElement pword = driver.findElement(By.name("reg_passwd__"));
    pword.sendKeys("Pbrvits@1998");

 // Step 9: Select the birth date (Day, Month, Year)
    Select ddday = new Select(driver.findElement(By.id("day")));
    ddday.selectByVisibleText("15");

    Select ddmonth = new Select(driver.findElement(By.id("month")));
   ddmonth.selectByVisibleText("May");

    Select ddyear = new Select(driver.findElement(By.id("year")));
    ddyear.selectByVisibleText("2007");
```

```java
// Step 10: Select the gender (e.g., Male)
WebElement genderMale = driver.findElement(By.xpath("//input[@value='2']"));
genderMale.click();

// Step 11: Click the Sign-Up button
WebElement signUpButton = driver.findElement(By.name("websubmit"));
signUpButton.click();

// Step 12: Optional Verification (Check page title)
if (driver.getTitle().contains("Facebook")) {
    System.out.println("Facebook registration page is working fine.");
} else {
    System.out.println("Test failed: Something went wrong.");
}

        // Step 13: Close the browser
driver.quit();
    }
}
```

Output :- Facebook registration page is working fine.