

Source Code

```
package com.test1;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

public class FacebookLoginAndRegistrationTest {
    WebDriver driver;

    @BeforeClass
    public void setup() {
        // Step 1: Declare the path
        String path = "C:\\Users\\liffat\\chromedriver-win64\\chromedriver-win64\\chromedriver.exe";

        // Step 2: Set system property
        System.setProperty("webdriver.chrome.driver", path);

        // Step 3: Give base URL
        String url = "https://www.facebook.com/";

        // Step 4: Initiate WebDriver
        driver = new ChromeDriver();

        // Step 5: Navigate to the Facebook login page
        driver.get(url);
    }

    @Test(priority = 1)
    public void testLogin() {
        // Locating web elements on the login page
        WebElement email = driver.findElement(By.id("email"));
        WebElement password = driver.findElement(By.id("pass"));
        WebElement loginButton = driver.findElement(By.name("login"));

        // Printing an attribute
        System.out.println("Email Placeholder: " + email.getAttribute("placeholder"));

        // Entering login credentials
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        email.sendKeys("abc@gmail.com");
        password.sendKeys("abc@123");

        // Clicking on the login button
        loginButton.click();

        // Add assertions or verifications as needed
    }

    @Test(priority = 2)
    public void testRegistration() {
        // Navigate to the Facebook registration page
        driver.navigate().to("https://www.facebook.com/r.php");

        // Locating web elements on the registration page
        WebElement firstName = driver.findElement(By.name("firstname"));
        WebElement lastName = driver.findElement(By.name("lastname"));
        WebElement emailOrMobile = driver.findElement(By.name("reg_email__"));
        WebElement newPassword = driver.findElement(By.name("reg_passwd__"));
        WebElement signUpButton = driver.findElement(By.name("websubmit"));

        // Entering registration details
        firstName.sendKeys("John");
        lastName.sendKeys("Doe");
        emailOrMobile.sendKeys("john.doe@example.com");
        newPassword.sendKeys("password123");

        // Clicking on the sign-up button
        signUpButton.click();

        // Add assertions or verifications as needed
    }

    @AfterClass
    public void tearDown() {
        // Uncomment the following line to close the browser after all tests
        // driver.quit();
    }
}

```

Pom.xml

```
<project xmlns="http://maven.apache.org/POM/4.0.0"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <groupId>coms</groupId>
  <artifactId>TestNgFirstApp</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <dependencies>

    <!-- https://mvnrepository.com/artifact/org.testng/testng -->
    <dependency>
      <groupId>org.testng</groupId>
      <artifactId>testng</artifactId>
      <version>7.8.0</version>
      <scope>test</scope>
    </dependency>

    <!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->
    <dependency>
      <groupId>org.seleniumhq.selenium</groupId>
      <artifactId>selenium-java</artifactId>
      <version>4.15.0</version>
    </dependency>

  </dependencies>
  <build></build>
</project>
```