**Source code**

**Logintest.java**

package login;

import org.testng.annotations.Test;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.annotations.BeforeTest;

import org.testng.annotations.AfterTest;

public class LoginTest {

WebDriver driver;

public void launchBrowser() {

System.setProperty("webdriver.chrome.driver",

"D:\\phase 5\\chromedriver\_win32/chromedriver.exe");

driver = new ChromeDriver();

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

}

public void closeBrowser() {

driver.quit();

}

public void performTest() throws InterruptedException {

Thread.sleep(2000);

driver.get("https://www.facebook.com");

System.out.println("Login Automation Started....");

driver.findElement(By.id("email")).sendKeys("ravi10thstudent@gmail.com");

System.out.println("Username is Entered.");

driver.findElement(By.id("pass")).sendKeys("ravi28394");

System.out.println("Password is Entered");

driver.findElement(By.name("login")).click();

System.out.println("Clicked On Login Button");

}

@Test

public void loginTest() {

LoginTest obj = new LoginTest();

try {

obj.launchBrowser();

obj.performTest();

obj.closeBrowser();

} catch (InterruptedException e) {

e.printStackTrace();

}

}

@BeforeTest

public void beforeTest() {

System.out.println("Testing is Going to start..");

}

@AfterTest

public void afterTest() {

System.out.println("Testing is Done!");

}

}

**Registertest.java**

package registration;

import org.testng.annotations.Test;

import org.testng.annotations.BeforeTest;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.testng.annotations.AfterTest;

public class RegistrationTest {

WebDriver driver;

public void launchBrowser() {

System.setProperty("webdriver.chrome.driver",

"D:\\phase 5\\chromedriver\_win32/chromedriver.exe");

driver = new ChromeDriver();

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

}

public void closeBrowser() {

driver.quit();

}

public void performTest() throws InterruptedException {

Thread.sleep(2000);

driver.get(

"https://www.facebook.com/reg/?privacy\_mutation\_token=eyJ0eXBlIjowLCJjcmVhdGlvbl90aW1lIjoxNjY0NTIxNTM2LCJjYWxsc2l0ZV9pZCI6MzYzOTY5MDQ0ODc4OTI4fQ%3D%3D");

System.out.println("Facebok Opened in Browser");

Thread.sleep(3000);

driver.findElement(By.name("firstname")).sendKeys("Rishav");

System.out.println("First Name Entered");

driver.findElement(By.name("lastname")).sendKeys("Kumar");

System.out.println("Last Name Entered");

driver.findElement(By.name("reg\_email\_\_")).sendKeys("rishav1729@gmail.com");

System.out.println("Email id Entered");

driver.findElement(By.name("reg\_email\_confirmation\_\_")).sendKeys("rishav1729@gmail.com");

System.out.println("Reentered Email Id");

driver.findElement(By.id("password\_step\_input")).sendKeys("rishav!@#$");

System.out.println("Password Entered");

driver.findElement(By.name("birthday\_day")).sendKeys("22");

System.out.println("Birth Day Selected");

driver.findElement(By.name("birthday\_month")).sendKeys("7");

System.out.println("Birth Month Selected");

driver.findElement(By.name("birthday\_year")).sendKeys("1999");

System.out.println("Birth Year Selected");

driver.findElement(By.xpath("//label[contains(.,'Male')]")).click();

System.out.println("Sex Selected");

Thread.sleep(3000);

driver.findElement(By.name("websubmit")).click();

Thread.sleep(3000);

System.out.println("Clicked On SignUp Button");

}

@Test

public void registrationTest() {

RegistrationTest obj = new RegistrationTest();

try {

obj.launchBrowser();

obj.performTest();

obj.closeBrowser();

} catch (InterruptedException e) {

e.printStackTrace();

}

}

@BeforeTest

public void beforeTest() {

System.out.println("Testing is Going to start..");

}

@AfterTest

public void afterTest() {

System.out.println("Testing is Done!");

}

}

**searchTest.java**

package search;

import org.testng.annotations.Test;

import org.testng.annotations.BeforeTest;

import java.util.List;

import java.util.concurrent.TimeUnit;

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.AfterTest;

public class SearchTest {

WebDriver driver;

public void launchBrowser() {

System.setProperty("webdriver.chrome.driver",

"D:\\phase 5\\chromedriver\_win32/chromedriver.exe");

driver = new ChromeDriver();

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

}

public void closeBrowser() {

driver.quit();

}

@SuppressWarnings("deprecation")

public void performTest() throws InterruptedException {

Thread.sleep(2000);

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

Thread.sleep(2000);

driver.findElement(By.id("twotabsearchtextbox")).sendKeys("macbook");

driver.manage().timeouts().implicitlyWait(4, TimeUnit.SECONDS);

driver.findElement(By.id("nav-search-bar-form")).submit();

driver.findElement(By.id("a-autoid-0-announce")).click();

driver.findElement(By.id("s-result-sort-select\_2")).click();

List<WebElement> resultsList = driver.findElements(By.xpath(".//span[@class='a-size-medium a-color-base a-text-normal']"));

int size = resultsList.size();

System.out.println("Size of list = " + size);

resultsList.get(2).click();

// System.out.println("The title of the page is :" + driver.getTitle());

//Add to cart

String winHandleBefore = driver.getWindowHandle();

for(String winHandle : driver.getWindowHandles()){

driver.switchTo().window(winHandle);

}

driver.findElement(By.cssSelector("#add-to-cart-button")).click();

}

@Test

public void searchTest() {

SearchTest obj = new SearchTest();

try {

obj.launchBrowser();

obj.performTest();

} catch (InterruptedException e) {

e.printStackTrace();

}

}

@BeforeTest

public void beforeTest() {

System.out.println("Testing is Going to start..");

}

@AfterTest

public void afterTest() {

System.out.println("Testing is Done!");

}

}