WEBDRIVER ASSIGNMENT

1. **Write a WebDriver script to navigate to a website and click on a specific link.**

```java
package seleniumassignement;

import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

/**
 * Write a WebDriver script to navigate to a website and
 * click on a specific link
 *
 */

public class seleniumAssign01 {

    public static void main(String[] args) {
        WebDriver driver= new ChromeDriver();
        driver.manage().window().maximize();

    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(1
0));
        driver.get("https://mail.rediff.com/cgi-bin/login.cgi");
        WebElement createAccountLink=
driver.findElement(By.partialLinkText("Create a"));
        createAccountLink.click();

        if(driver.getCurrentUrl().contains("register"))
        {
            System.out.println("click at create account link is
pass");
        }
        else
        {
            System.out.println("click at create account link is
fail");
        }

        driver.close();

    }

}
```

2. **Implement a Page Object Model for a login page using WebDriver.**

PAGE OBJECT CLASS:

```java
package seleniumassignement;
```

```java
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class seleniumAssign02POM {
    WebDriver driver;

    public seleniumAssign02POM(WebDriver driver)
    {
        this.driver=driver;
        PageFactory.initElements(driver, this);
    }

// Locators
    @FindBy(xpath="//input[@placeholder='Username']") WebElement
txt_username;
    @FindBy(xpath="//input[@placeholder='Password']") WebElement
txt_password;
    @FindBy(xpath ="//button[normalize-space()='Login']")
WebElement btn_submit;


    public void setusername(String username) {
        txt_username.sendKeys(username);
    }

    public void setpassword(String password) {
        txt_password.sendKeys(password);
    }
    public void login_button() {
        btn_submit.click();
    }

}
```

TESTCASE CLASS:

```java
package seleniumassignement;

import org.testng.annotations.Test;

import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;


public class seleniumAssign02Test {
  WebDriver driver;
  seleniumAssign02POM obj;
```

```java
        @Test
    public void adminLoginTest() {
                obj.setusername("student");
                obj.setpassword("Password123");
                obj.login_button();

    }
    @AfterMethod
    public void afterMethod() {

            if(driver.getCurrentUrl().contains("logged-in-successfully"))
            {
                    Assert.assertTrue(true, "Testcase Pass");
            }
            else
            {
                    Assert.assertTrue(false, "Testcase Fail");
            }
    }

    @BeforeTest
    public void beforeTest() {
            driver= new ChromeDriver();
            driver.manage().window().maximize();
            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(10));
            driver.get("https://practicetestautomation.com/practice-test-login/");
        obj= new seleniumAssign02POM(driver);
    }


    @AfterTest
    public void afterTest() {
            driver.close();
    }

}
```

3. **Write a WebDriver script to handle a dropdown and select an option based on specific criteria.**

```java
package seleniumassignement;

import java.time.Duration;
import java.util.List;

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;

/*
 * In rediff website under registration form select date of birth
as "13-06-1990"
 *
```

```java
 */
public class seleniumAssign03 {

    public static void main(String[] args)  {

            WebDriver driver= new ChromeDriver();
            driver.manage().window().maximize();

        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(1
0));

        driver.get("https://register.rediff.com/register/register.php?
FormName=user_details");

            WebElement dayDropDown=
driver.findElement(By.xpath("//*[@id=\"tblcrtac\"]/tbody/tr[22]/t
d[3]/select[1]"));
            Select daySelector= new Select(dayDropDown);
            daySelector.selectByIndex(13);
            System.out.println("selected date is:"
+daySelector.getFirstSelectedOption().getText());
            WebElement monthDropDown=
driver.findElement(By.xpath("//*[@id=\"tblcrtac\"]/tbody/tr[22]/t
d[3]/select[2]"));
            Select monthSelector= new Select(monthDropDown);
            monthSelector.selectByValue("06");
            System.out.println("selected month is:"
+monthSelector.getFirstSelectedOption().getText());

            WebElement
yearDropDown=driver.findElement(By.xpath("//*[@id=\"tblcrtac\"]/t
body/tr[22]/td[3]/select[3]"));
            Select yearSelector= new Select(yearDropDown);
            yearSelector.selectByVisibleText("1990");
            System.out.println("selected year is:"
+yearSelector.getFirstSelectedOption().getText());

            driver.close();
    }

}
```

4. Implement a test case using WebDriver to validate the functionality of a registration form.

```java
package seleniumassignement;
import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.Select;
```

```java
/*
 * Perform registeration on url=
"https://codenboxautomationlab.com/registration-form/"
 */
public class seleniumAssign04 {

    public static void main(String[] args) throws
InterruptedException {

        WebDriver driver= new ChromeDriver();
        driver.manage().window().maximize();

    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(1
0));

        driver.get("https://codenboxautomationlab.com/registration-
form/");
        driver.findElement(By.name("fname")).sendKeys("Raisha");

driver.findElement(By.cssSelector("input[name=\"lname\"]")).sendKeys
("Begum");

driver.findElement(By.name("email")).sendKeys("raishabegum.ba@gmail.
com");
        driver.findElement(By.xpath("//*[@id=\"nf-field-
20\"]")).sendKeys("8904058595");
        JavascriptExecutor js= (JavascriptExecutor)driver;
        js.executeScript("window.scrollBy(0,250)", "");
        WebElement courseDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-22\"]"));
        courseDrpDwn.click();
        Select course= new Select(courseDrpDwn);
        course.selectByIndex(0);


        WebElement monthDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-24\"]"));
        Select month= new Select(monthDrpDwn);
        month.selectByValue("august");

        WebElement socialMediaBtn=
driver.findElement(By.xpath("//*[@id=\"nf-label-class-field-23-
1\"]"));
        socialMediaBtn.click();
        driver.findElement(By.xpath("//*[@id=\"nf-field-
15\"]")).click();

        Thread.sleep(5000);

        String regSuccessMsg="Your registration is completed";
        if(driver.getPageSource().contains(regSuccessMsg))
        {
          System.out.println("Registeration is success");
        }
        else
        {
```

```
            System.out.println("Registeration is not success");
        }


        driver.close();


    }

}
```

5. **Write a WebDriver script to capture a screenshot of a webpage and save it to a specific location**

   USING JAVA CLASS

```java
package seleniumassignement;

import java.io.File;
import java.io.IOException;
import java.time.Duration;
import org.openqa.selenium.io.FileHandler;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
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 seleniumAssign05 {

    public static void main(String[] args) throws
InterruptedException, IOException {

            WebDriver driver= new ChromeDriver();
            driver.manage().window().maximize();

        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(1
0));

        driver.get("https://codenboxautomationlab.com/registration-
form/");
            driver.findElement(By.name("fname")).sendKeys("Raisha");

driver.findElement(By.cssSelector("input[name=\"lname\"]")).sendKeys
("Begum");

driver.findElement(By.name("email")).sendKeys("raishabegum.ba@gmail.
com");
            driver.findElement(By.xpath("//*[@id=\"nf-field-
20\"]")).sendKeys("8904058595");
```

```java
            File file =
((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
            FileHandler.copy(file, new
File("C:\\raisha\\selenium\\raisha_selenium_demos\\Screenshots\\regi
sterForm.jpeg"));


((JavascriptExecutor)driver).executeScript("window.scrollBy(0,250)",
"");

            WebElement courseDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-22\"]"));
            courseDrpDwn.click();
            Select course= new Select(courseDrpDwn);
            course.selectByIndex(0);


            WebElement monthDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-24\"]"));
            Select month= new Select(monthDrpDwn);
            month.selectByValue("august");

            WebElement socialMediaBtn=
driver.findElement(By.xpath("//*[@id=\"nf-label-class-field-23-
1\"]"));
            socialMediaBtn.click();
            driver.findElement(By.xpath("//*[@id=\"nf-field-
15\"]")).click();

            Thread.sleep(5000);
            file=
((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
            FileHandler.copy(file, new
File("C:\\raisha\\selenium\\raisha_selenium_demos\\Screenshots\\RegS
uccess.jpeg"));

            String regSuccessMsg="Your registration is completed";

            if(driver.getPageSource().contains(regSuccessMsg))
            {
              System.out.println("Registeration is success");
            }
            else
            {
              System.out.println("Registeration is not success");
            }


            driver.close();

        }

}
```

```java
package seleniumassignement;

import org.testng.annotations.Test;
import org.testng.annotations.Test;

import java.io.File;
import java.io.IOException;
import java.time.Duration;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;
import org.openqa.selenium.OutputType;
import org.openqa.selenium.TakesScreenshot;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.io.FileHandler;
import org.openqa.selenium.support.ui.Select;
import org.testng.Assert;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;

public class seleniumAssign05_testNG {
    WebDriver driver;
    File file;
    @Test
    public void Register() throws IOException,
InterruptedException {

    ((JavascriptExecutor)driver).executeScript("window.scrollBy(0,
250)", "");
        driver.findElement(By.name("fname")).sendKeys("Raisha");

    driver.findElement(By.cssSelector("input[name=\"lname\"]")).se
ndKeys("Begum");

    driver.findElement(By.name("email")).sendKeys("raishabegum.ba@
gmail.com");
        driver.findElement(By.xpath("//*[@id=\"nf-field-
20\"]")).sendKeys("8904058595");
        WebElement courseDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-22\"]"));
        courseDrpDwn.click();
        Select course= new Select(courseDrpDwn);
        course.selectByIndex(1);


    ((JavascriptExecutor)driver).executeScript("window.scrollBy(0,
100)", "");

        WebElement monthDrpDwn=
driver.findElement(By.xpath("//*[@id=\"nf-field-24\"]"));
        Select month= new Select(monthDrpDwn);
```

```java
            month.selectByValue("august");

            WebElement socialMediaBtn=
driver.findElement(By.xpath("//*[@id=\"nf-label-class-field-23-
1\"]"));
            socialMediaBtn.click();
            driver.findElement(By.xpath("//*[@id=\"nf-field-
15\"]")).click();

            Thread.sleep(10000);

            String regSuccessMsg="Your registration is completed";

            if(driver.getPageSource().contains(regSuccessMsg))
            {
                Assert.assertTrue(true);
                System.out.println("Registeration is success");
            }
            else
            {
                Assert.assertTrue(false);
                System.out.println("Registeration is not success");
            }


    }
    @AfterMethod
    public void afterMethod() throws IOException {

            file=
((TakesScreenshot)driver).getScreenshotAs(OutputType.FILE);
            FileHandler.copy(file, new
File("C:\\raisha\\selenium\\raisha_selenium_demos\\Screenshots\\RegS
uccess.jpeg"));
    }

    @BeforeTest
    public void beforeTest() {
            driver= new ChromeDriver();
            driver.manage().window().maximize();

    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(1
0));

    driver.get("https://codenboxautomationlab.com/registration-
form/");
    }

    @AfterTest
    public void afterTest() {
            driver.close();
    }

}
```