

## DAY24 ASSIGNMENT

**1.Create 2 test cases, disable one using enabled = false, and run only the active test.**

Ans)

```
package TestNG_Selenium;

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.interactions.Actions;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

public class AssertTest {
    WebDriver driver;

    @BeforeClass
    public void beforeClass() {
        driver=new ChromeDriver();
        driver.get("https://www.ebay.com/");
        driver.manage().window().maximize();
    }

    @Test(enabled=true)
    public void login() throws InterruptedException {
        driver.findElement(By.linkText("Sign in")).click();
        driver.findElement(By.id("userid")).sendKeys("nikhithadevireddy@gmail.com");
        driver.findElement(By.id("signin-continue-btn")).click();
        Thread.sleep(2000);
    }
}
```

```

        driver.findElement(By.id("pass")).sendKeys("Nikhitha@30");

        driver.findElement(By.id("sgnBt")).click();


        System.out.println("login successful");
    }

    @Test(enabled=false)
    public void search() throws InterruptedException {

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

        String[] items = {"watch","phone","headphones"};

        for (String item : items) {

            WebElement search1=driver.findElement(By.id("gh-ac"));

            search1.clear();

            driver.findElement(By.id("gh-ac")).sendKeys(item);

            driver.findElement(By.id("gh-search-btn")).click();

            driver.findElement(By.id("gh-ac")).clear();

            System.out.println("Searched for: " + item);

        }

        Thread.sleep(3000);

        driver.findElement(By.id("gh-logo")).click();
    }

    @Test()
    public void logout() throws InterruptedException {

        WebElement elementToHover =
driver.findElement(By.cssSelector("span>div[class=\"gh-flyout is-left-aligned\"]"));

        Actions actions = new Actions(driver);

        actions.moveToElement(elementToHover).build().perform();

        Thread.sleep(5000);
    }

```

```
        driver.findElement(By.cssSelector("a[_sp=\"m570.l2622\"]")).click();  
        Thread.sleep(5000);  
    }
```

@AfterClass

```
public void afterClass(){  
    driver.close();  
}
```

```
}
```

**2. Write a test to run the same test multiple times.**

**Ans)**

```
package TestNG_Selenium;
```

```
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.BeforeClass;  
import org.testng.annotations.Test;
```

```
public class Testcase1 {
```

```
    WebDriver driver;
```

@BeforeClass

```
public void beforeClass() {  
    driver=new ChromeDriver();  
    driver.get("https://www.ebay.com/");  
}
```

```

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

@Test(enabled=true)
public void login() throws InterruptedException {
    driver.findElement(By.linkText("Sign in")).click();
    driver.findElement(By.id("userid")).sendKeys("nikhithadevireddy@gmail.com");
    driver.findElement(By.id("signin-continue-btn")).click();
    Thread.sleep(2000);
    driver.findElement(By.id("pass")).sendKeys("Nikhitha@30");
    driver.findElement(By.id("sgnBt")).click();

    System.out.println("login successful");
}

@Test(dependsOnMethods = "login", invocationCount = 2) //runs 2 times
public void search() throws InterruptedException {
    //driver.get("https://www.ebay.com/");
    String[] items = {"watch", "phone", "headphones"};
    for (String item : items) {
        WebElement search1=driver.findElement(By.id("gh-ac"));
        search1.clear();
        driver.findElement(By.id("gh-ac")).sendKeys(item);
        driver.findElement(By.id("gh-search-btn")).click();
        driver.findElement(By.id("gh-ac")).clear();
        System.out.println("Searched for: " + item);
    }

    Thread.sleep(3000);
    driver.findElement(By.id("gh-logo")).click();
}

```

```
}
```

```
}
```

**3. Write test cases for a dummy login page using @Parameters in testng.xml.**

Ans)

```
package TestNG_Selenium;
```

```
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.Optional;
```

```
import org.testng.annotations.Parameters;
```

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

```
public class Testcase3 {
```

```
    WebDriver driver;
```

```
    @BeforeClass
```

```
    public void setUp() {
```

```
        //System.setProperty("webdriver.chrome.driver", "path/to/chromedriver");
```

```
        driver = new ChromeDriver();
```

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

```
        driver.get("https://example.com/dummy-login");
```

```
    }
```

```
    @Test
```

```
    @Parameters({"username", "password"})
```

```
    public void loginTest(@Optional("admin") String username,
```

```

        @Optional("admin123") String password) {

            WebElement user = driver.findElement(By.id("username"));

            user.clear();

            user.sendKeys(username);


            WebElement pass = driver.findElement(By.id("password"));

            pass.clear();

            pass.sendKeys(password);

            driver.findElement(By.id("loginBtn")).click();

        }

        @AfterClass

        public void f() {

            driver.quit();

        }

    }

```

#### Testng xml:

```

<suite name="DummyLoginPageSuite" parallel="classes" thread-count="2">

    <test name="LoginTest">

        <parameter name="username" value="admin"/>

        <parameter name="password" value="admin123"/>

        <classes>

            <class name="testNG_practice.DummyLoginPage"/>

        </classes>

    </test>

</suite>

```

#### 4. Write dependent test cases:

**login()**

**search Product() (depends on login)**

**logout() (depends on search)**

**Ans)**

```
package TestNG_Selenium;

import java.time.Duration;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.Test;

public class Testcase4 {

    WebDriver driver;

    WebDriverWait wait;

    @BeforeClass

    public void setup() {

        driver = new ChromeDriver();

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

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

        wait = new WebDriverWait(driver, Duration.ofSeconds(20));

    }

    //login

    @Test(priority = 1)
```

```

public void login() throws InterruptedException {

    driver.findElement(By.linkText("Sign in")).click();

    driver.findElement(By.id("userid")).sendKeys("nikhithadevireddy@gmail.com");

    driver.findElement(By.id("signin-continue-btn")).click();

    Thread.sleep(2000);

    driver.findElement(By.id("pass")).sendKeys("Nikhitha@30");

    driver.findElement(By.id("sgnBt")).click();

    Assert.assertTrue(driver.getPageSource().contains("My eBay"), "Login failed");
}

// Test 2: Search Product (depends on login)
@Test(priority = 2, dependsOnMethods = {"login"})
public void searchProduct() {

    WebElement search=driver.findElement(By.id("gh-ac"));

    search.sendKeys("laptop");

    search.sendKeys(Keys.ENTER);

    Assert.assertTrue(driver.getTitle().contains("watches"), "Searched successfully");
}


// Test 3: Logout (depends on searchProduct)
@Test(priority = 3, dependsOnMethods = {"searchProduct"})
public void logout() {

    driver.findElement(By.xpath("//*[@id=\"gh\"]/nav/div[1]/span[1]/div/button")).click(
);

    driver.findElement(By.xpath("//*[@id=\"s0-1-4-9-3[0]-0-9-dialog\"]/div/div/ul/li[3]/a")).click();

    System.out.println("successfully logout");

}

@AfterClass

```



```
public void f() {  
    driver.quit();  
}  
}
```

**5. Use Data Provider to supply multiple sets of usernames/passwords to a login test.**

**Ans)**

```
package TestNG_Selenium;  
  
import java.io.FileInputStream;  
import java.io.IOException;  
  
import org.apache.poi.ss.usermodel.Cell;  
import org.apache.poi.ss.usermodel.Row;  
import org.apache.poi.ss.usermodel.Sheet;  
import org.apache.poi.ss.usermodel.Workbook;  
import org.apache.poi.ss.usermodel.WorkbookFactory;  
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.DataProvider;  
import org.testng.annotations.Test;  
  
public class ExcelTest {  
    @DataProvider(name="excelData")  
    public Object[][] excelDataProvider() throws IOException{  
        String excelPath = "C:\\Users\\nitish\\OneDrive\\Desktop\\java  
24\\Testng_Selenium\\src\\test\\resources\\loginpage.xlsx";  
        String sheetName = "Sheet1";
```

```

        FileInputStream fis = new FileInputStream(excelPath);
        Workbook workbook = WorkbookFactory.create(fis);
        Sheet sheet = workbook.getSheet(sheetName);

        int rows = sheet.getPhysicalNumberOfRows();
        int cols = sheet.getRow(0).getLastCellNum();

        Object[][] data = new Object[rows-1][cols];

        for(int i=1;i<rows;i++) {
            Row row = sheet.getRow(i);
            for(int j=0;j<cols;j++) {
                Cell cell = row.getCell(j);
                data[i-1][j] = (cell == null)?"":cell.toString();
            }
        }
        workbook.close();
        fis.close();
        return data;
    }

    @Test(dataProvider = "excelData")
    public void testLogin(String username, String password) {
        System.out.println("Username: "+username+" | Password: "+password);
        WebDriver driver=new ChromeDriver();
        driver.get("http://zero.webappsecurity.com/login.html");
        WebElement usr=driver.findElement(By.id("user_login"));
        usr.sendKeys(username);
    }

```

```

        WebElement psw=driver.findElement(By.id("user_password"));

        psw.sendKeys(password);

        driver.findElement(By.cssSelector("input[name=\"submit\"]")).click();

    }

}

```

## 6.Run test cases in parallel (methods, classes, tests) using parallel attribute in testng.xml.

Ans)

**Class1:**

```

package TestNG_Selenium;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;

public class ClassTest1{

    ChromeDriver driver= new ChromeDriver();

    @Test
    public void amazon() throws InterruptedException
    {

        driver = new ChromeDriver();

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

        String expectedurl="https://www.amazon.in/";

        String actualurl=driver.getCurrentUrl();

        Assert.assertEquals(actualurl, expectedurl,"Url validation fail");

        Thread.sleep(3000);

        System.out.println("amazon - Thread ID :"+Thread.currentThread().getId());
    }
}

```

```
    }  
}
```

### **Class2:**

```
package TestNG_Selenium;
```

```
import org.openqa.selenium.WebDriver;
```

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

```
import org.testng.Assert;
```

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

```
public class ClassTest2Test {
```

```
    WebDriver driver;
```

```
    @Test
```

```
    public void flipkart() throws InterruptedException {
```

```
        driver=new ChromeDriver();
```

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

```
        String expectedtitle="Online Shopping Site for  
Mobiles,lifestyle,groceries,electronics,Books & More. Best Offers!";
```

```
        String actualtitle=driver.getTitle();
```

```
        Assert.assertEquals(actualtitle, expectedtitle,"Title validation fail");
```

```
        Thread.sleep(3000);
```

```
        System.out.println("Flipkart-Thread Id:"+Thread.currentThread().getId());
```

```
        driver.quit();
```

```
    }
```

```
}
```

### **Testng xml:**

```
<suite name="ParallelSuite" parallel="classes" thread-count="1">
```

```
    <test name="ParallelTestExecution">
```

```
        <classes>
```

```
<class name="testng_package.TestClass1"/>  
<class name="testng_package.TestClass2"/>  
</classes>  
</test>  
</suite>
```