

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

Program:

```
import java.time.Duration;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;

public class Task1 {

    WebDriver driver;

    WebDriverWait wait;

    @BeforeTest

    public void setUp() {

        driver = new ChromeDriver();

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

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

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

    }

    @Test(enabled = true)

    public void login() throws InterruptedException{

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

        Thread.sleep(3000);

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

        Thread.sleep(3000);

        driver.findElement (By.id("pass")).sendKeys("Jayanth@2003");

    }

}
```

```

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

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

    @Test(enabled = false)
    public void logout() {

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

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

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

```

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

Program:

```

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.annotations.AfterTest;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.Test;
public class Task2_MultipleTimes {

```

```

WebDriver driver;

WebDriverWait wait;

@BeforeTest

public void setUp() throws InterruptedException {

    driver = new ChromeDriver();

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

    Thread.sleep(3000);

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

}

@Test(invocationCount = 3)//test will run 3 times

public void multiplerun() {

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

    search.clear();

    search.sendKeys("phones");

    search.sendKeys(Keys.ENTER);

}

@AfterTest

public void afterTest() {

    driver.quit();

}

}

```

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

Program:

```

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 DummyLoginPage {

    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 userField = driver.findElement(By.id("username"));

        userField.clear();

        userField.sendKeys(username);

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

        passField.clear();

        passField.sendKeys(password);

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

    }

    @AfterClass

    public void tearDown() {

        driver.quit();

    }

}

```

```
}  
}
```

XML Document:

```
<suite name="DummyLoginPageSuite" parallel="classes" thread-count="1">  
  <test name="LoginTest">  
    <parameter name="username" value="admin"/>  
    <parameter name="password" value="admin123"/>  
    <classes>  
      <class name="testNG_practice.DummyLoginPage"/>  
    </classes>  
  </test>
```

4. Write dependent test cases:

login()

search Product() (depends on login)

logout() (depends on search)

Program:

```
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.ExpectedConditions;  
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 Task4_DependencyTestCases {

    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));

    }

    // Test 1: Login

    @Test(priority = 1)

    public void login() throws InterruptedException {

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

        driver.findElement (By.id("userid"))

            .sendKeys("jayanthyselsetti@gmail.com");

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

        wait.until(ExpectedConditions.visibilityOfElementLocated(By.id("pass")))

            .sendKeys("Jayanth@2003");

        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("watch");

        search.sendKeys(Keys.ENTER);

    }

}

```

```

        Assert.assertTrue(driver.getTitle().contains("laptop"), "Search failed");
    }

    // 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/span/span")).click();

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

    @AfterClass
    public void tearDown() {
        driver.quit();
    }
}

```

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

Program:

```

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\\jayan\\Desktop\\Java_Selenium\\TestNg_selenium\\src\\test\\resources\\TestData.
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.

1st Program:

```

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

public class TestClass1 {
    WebDriver driver;

```

```

@Test
public void ebay() throws InterruptedException {
    driver = new ChromeDriver();
    driver.get("https://www.ebay.com/");

    String expectedurl = "https://www.ebay.com/";
    String actualurl = driver.getCurrentUrl();

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

    Thread.sleep(3000);
    driver.quit();
}
}

```

2nd program:

```

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

public class TestClass2 {
    WebDriver driver;

    @Test
    public void tira() throws InterruptedException {
        driver = new ChromeDriver();
        driver.get("https://www.tirabeauty.com/");
    }
}

```

```
String expectedTitle = "Tira - Buy Makeup & Beauty Products Online | Best Offers on Skincare & Haircare";
```

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

```
Assert.assertEquals(actualTitle, expectedTitle, "Title validation fail");
```

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

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

```
}
```

```
}
```

XML Document:

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

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

```
<classes>
```

```
<class name="Assertions.TestClass1"/>
```

```
<class name="Assertions.TestClass2"/>
```

```
</classes>
```

```
</test>
```

```
</suite>
```