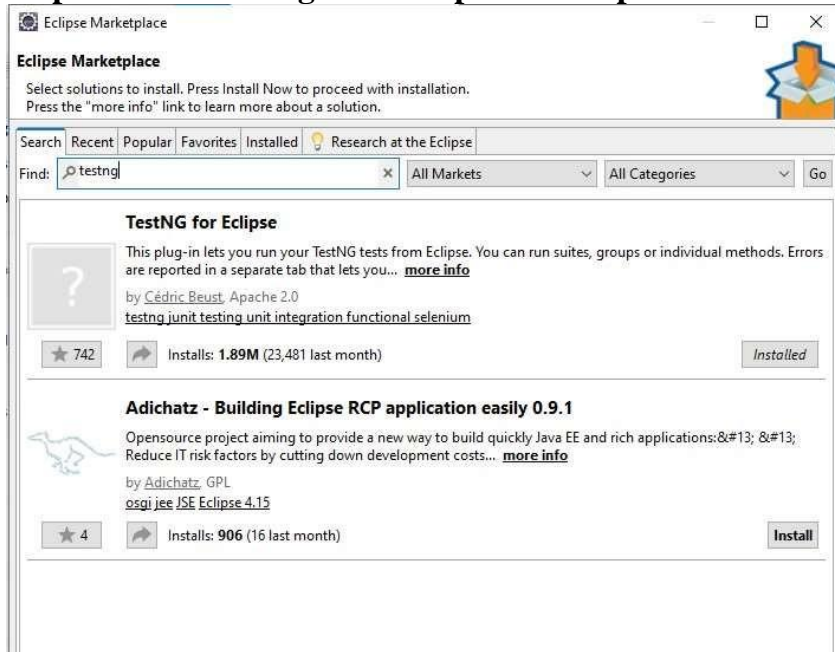


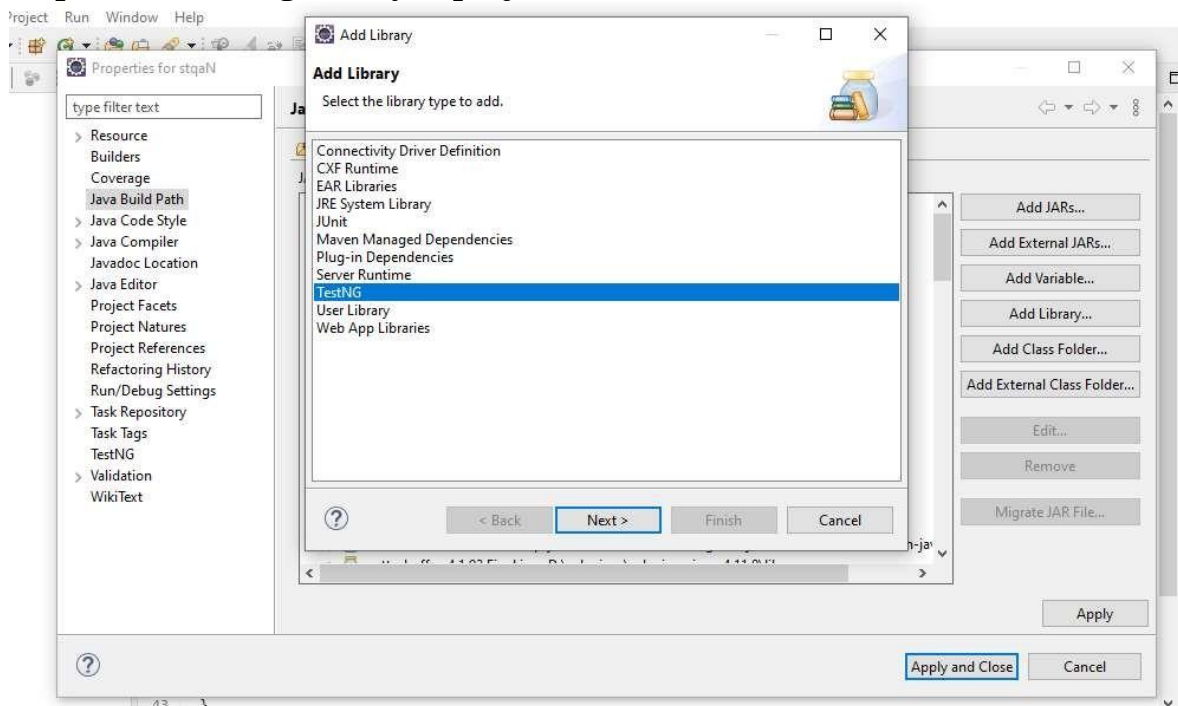
ASSIGNMENT-3

Aim: Installation of TestNg , running testNg and TestNg annotations

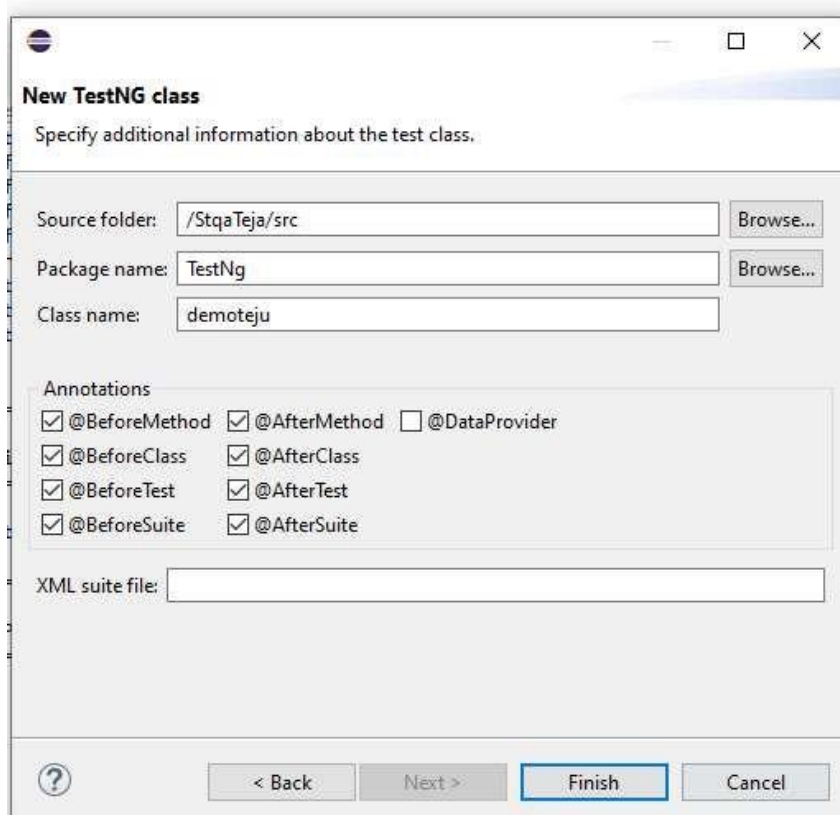
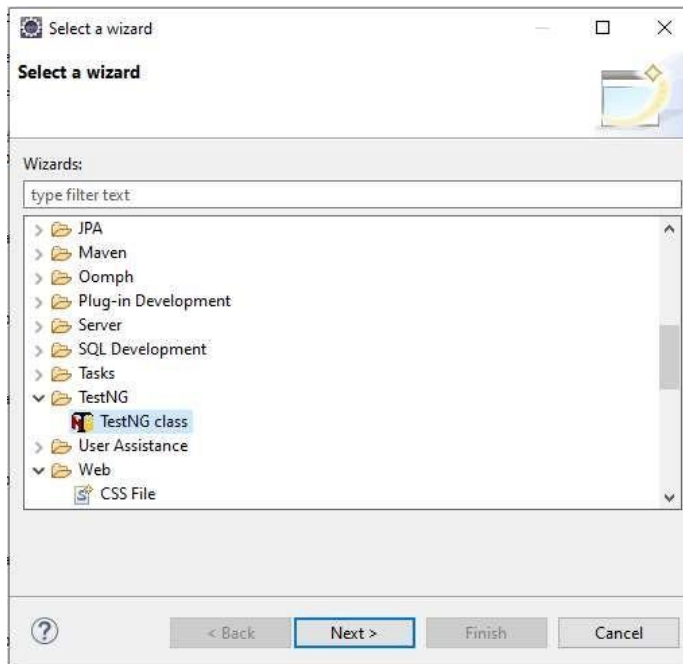
Step1: Install TestNg from eclipse marketplace



Step 2: Add TestNg library in project



Step 3: Create TestNg class in src with new package TestNg



```
package TestNg;

import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeClass;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.AfterSuite;

public class demoteju {
    @Test
    public void f() {
        System.out.println("This will execute normal test");
    }
    @BeforeMethod
    public void beforeMethod() {
        System.out.println("This will execute before method");
    }

    @AfterMethod
    public void afterMethod() {
        System.out.println("This will execute after method");
    }

    @BeforeClass
    public void beforeClass() {
        System.out.println("This will execute before class");
    }

    @AfterClass
    public void afterClass() {
        System.out.println("This will execute after method");
    }

    @BeforeTest
    public void beforeTest() {
        System.out.println("This will execute before test");
    }

    @AfterTest
    public void afterTest() {
        System.out.println("This will execute after test");
    }
}
```

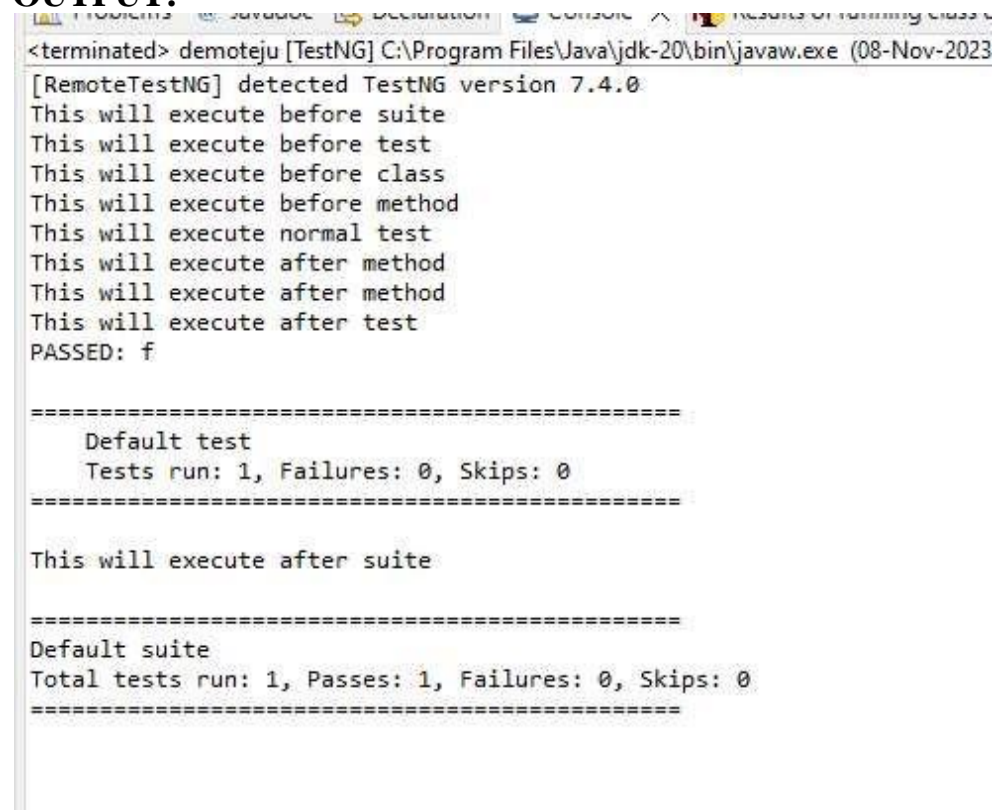
```

@BeforeSuite
public void beforeSuite() {
    System.out.println("This will execute before suite");
}

@AfterSuite
public void afterSuite() {
    System.out.println("This will execute after suite");
}
}

```

OUTPUT:



```

<terminated> demoteju [TestNG] C:\Program Files\Java\jdk-20\bin\javaw.exe (08-Nov-2023)
[RemoteTestNG] detected TestNG version 7.4.0
This will execute before suite
This will execute before test
This will execute before class
This will execute before method
This will execute normal test
This will execute after method
This will execute after method
This will execute after test
PASSED: f

=====
    Default test
    Tests run: 1, Failures: 0, Skips: 0
=====

This will execute after suite

=====
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
=====

```

TestNG Report

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file:///C:/Users/Admin/Desktop/email.html

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	1	0	0	0	24		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
TestNg demoteju		1699432372083	4

Default test

TestNg.demoteju#f

[back to summary](#)



Aim: Demonstrate annotations using TestNG

```
package TestNg;
import org.testng.annotations.Test;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeTest;
import org.testng.annotations.AfterTest;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class demoguru {
    WebDriver wd= new ChromeDriver();
    @Test
    public void f1() {
        wd.findElement(By.name("userName")).sendKeys("admin");
        wd.findElement(By.name("password")).sendKeys("admin");
        wd.findElement(By.name("submit")).click();
        System.out.println("I am in f1");
    }
    @Test
    public void f2() {
        wd.findElement(By.linkText("REGISTER")).click();
        System.out.println("I am in f2");
    }
    @BeforeMethod
    public void beforeMethod() {
        wd.findElement(By.linkText("Home")).click();
        System.out.println("I am in before method");
    }
    @AfterMethod
    public void afterMethod() {
        wd.findElement(By.linkText("Vacations")).click();
        System.out.println("I am in after method");
    }
    @BeforeTest
    public void beforeTest() {
        System.setProperty("webdriver.chrome.driver", "D:\\selenium\\Chromedriver.exe" );
        wd.get("https://demo.guru99.com/test/newtours/index.php");
        System.out.println("I am in before test");
    }
    @AfterTest
    public void afterTest() {
        wd.close();
    }
}
```

```

        System.out.println("I am in after test");
    }
}

```

```

<terminated> demoguru [TestNG] C:\Program Files\Java\jdk-20\bin\javaw.exe (08-Nov-2023 3:01:07 PM)
[RemoteTestNG] detected TestNG version 7.4.0
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details
Nov 08, 2023 3:01:07 PM org.openqa.selenium.devtools.CdpVersionFinder findCdpVersion
WARNING: Unable to find an exact match for CDP version 119, so returning the closest match: 118
I am in before test
I am in before method
I am in f1
I am in after method
I am in before method
I am in f2
I am in after method
I am in after test
PASSED: f2
PASSED: f1


```

```

=====
Default test
Tests run: 2, Failures: 0, Skips: 0
=====

Default suite
Total tests run: 2, Passes: 2, Failures: 0, Skips: 0
=====

```


TestNG Report
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file:///C:/Users/Admin/Desktop/email.html

Test	# Passed	# Skipped	# Retried	# Failed	Time (ms)	Included Groups	Excluded Groups
Default suite							
Default test	2	0	0	0	6,515		

Class	Method	Start	Time (ms)
Default suite			
Default test — passed			
TestNg demoguru	f1	1699435870630	1129
	f2	1699435873000	595

Default test

TestNg.demoguru#f1

[back to summary](#)

TestNg.demoguru#f2

[back to summary](#)

Aim: Demonstrate Assertions in TestNG framework

```
package sqateju;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
public class datadriven {
    public static void main(String[] args) throws IOException {
        System.setProperty("WebDriver.Chrome.Driver", "C:\\\\chromedriver-
win64\\\\ChromeDriver.exe" );
        WebDriver wd= new ChromeDriver();

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

        String expectedTitle = "Facebook";//if title is not matching execution will be
fail

        String actualTitle =wd.getTitle();
        System.out.println("Title of Webpage=====> " + actualTitle);
        Assert.assertEquals(actualTitle, expectedTitle);
    }
}
```

OUTPUT:

```
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using Simp
Dec 12, 2023 10:56:18 AM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 120, so returning the closest version found: 116
Title of Webpage=====> Facebook - log in or sign up
Exception in thread "main" java.lang.AssertionError: expected [Facebook] but found [Facebook - log in or sign up]
    at org.testng.Assert.fail(Assert.java:111)
    at org.testng.Assert.failNotEquals(Assert.java:1578)
    at org.testng.Assert.assertEqualsImpl(Assert.java:150)
    at org.testng.Assert.assertEquals(Assert.java:132)
    at org.testng.Assert.assertEquals(Assert.java:656)
    at org.testng.Assert.assertEquals(Assert.java:666)
    at sqateju.datadriven.main(datadriven.java:25)
```

Aim: Demonstrate data driven Framework

```
package stqateju;
import java.io.FileInputStream;
import java.io.FileNotFoundException;
import java.io.FileOutputStream;
import java.io.IOException;
import org.apache.poi.xssf.usermodel.XSSFCell;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class datadriven {
    public static void main(String[] args) throws IOException {
        System.setProperty("WebDriver.Chrome.Driver", "C:\\chromedriver-
win64\\ChromeDriver.exe" );
        WebDriver wd= new ChromeDriver();
        wd.get("https://demo.guru99.com/test/newtours/");
        FileInputStream fis = new FileInputStream("C:\\Selenium\\demoexcel.xlsx");//> Read
data from file
        XSSFWorkbook wk= new XSSFWorkbook(fis);
        XSSFSheet sh = wk.getSheet("WriteOHM");// -----> data to be written
        for(int i=1; i<=sh.getLastRowNum(); i++)
        {
            XSSFRow rw = sh.getRow(i);
            XSSFCell un = rw.getCell(0);
            XSSFCell pw = rw.getCell(1);
            XSSFCell res =rw.createCell(2);
            System.out.println(un + " "+ pw);
            wd.findElement(By.name("userName")).sendKeys(un.toString());
            wd.findElement(By.name("password")).sendKeys(pw.toString());
            wd.findElement(By.xpath("/html/body/div[2]/table/tbody/tr/td[2]/table/tbody/tr[4]/td/table/tb
ody/tr/td[2]/table/tbody/tr[2]/td[3]/form/table/tbody/tr[4]/td/table/tbody/tr[4]/td[2]/div/input")).click();
            try {

                wd.findElement(By.linkText("SIGN-OFF")).click();
                System.out.println("Login Pass");
                res.setCellValue("Valid");
            }
            catch (Exception e)
            {
                System.out.println("Login Fail");
                res.setCellValue("Invalid");
            }
        }
        fis.close();
    }
}
```

```

        FileOutputStream fos= new FileOutputStream("C:\\Selenium\\demoexcel.xlsx");
        wk.write(fos);
    }
}

```

OUTPUT:

```

ERROR StatusLogger Log4j2 c
Dec 12, 2023 10:50:25 AM or
WARNING: Unable to find an
admin admin
Login Pass
admin 1234.0
Login Fail
teju 2929.0
Login Fail
prerana 1311.0
Login Fail
namrata 207.0
Login Fail

```

	A	B	C	
	username	password	Result	
	admin	admin	Valid	
	admin	1234	InValid	
	teju	2929	InValid	
	prerana	1311	InValid	
	namrata	207	InValid	

