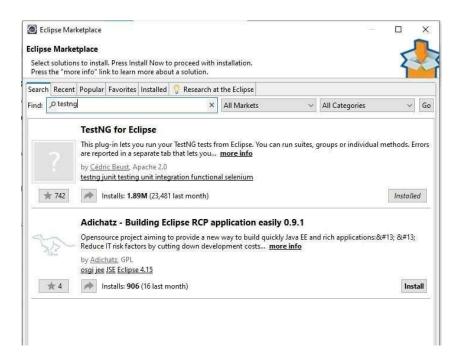
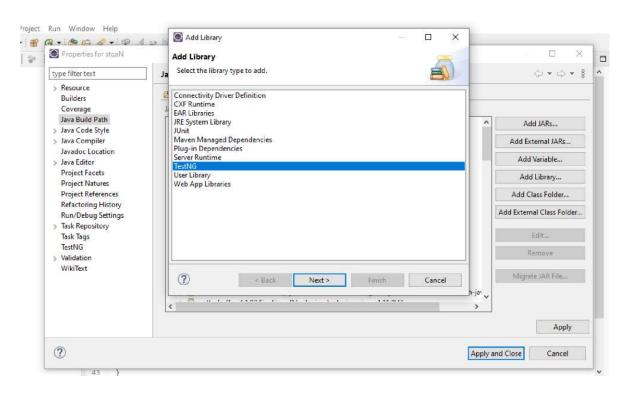
#### 3 TestNg & Data Driven Framework

# Aim:- Installation of TestNg, running testNg and TestNg annotations

Step1: Install TestNg from eclipse marketplace

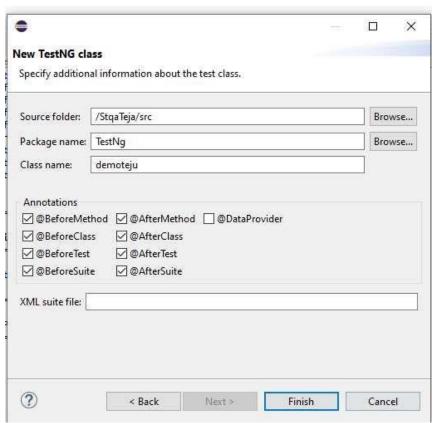


Step 2: Add TestNg library in project



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



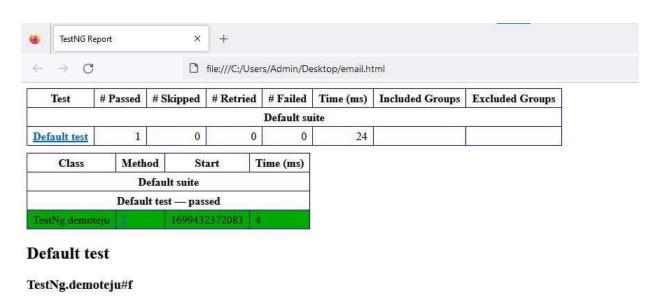


package TestNg; import org.testng.annotations.Test; import org.testng.annotations.BeforeMethod;

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

#### **OUTPUT:**

```
The property of the periode of the periode of the period o
 <terminated> demoteju [TestNG] C:\Program Files\Java\jdk-20\bin\javaw.exe (08-Nov-202:
 [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
 ------
```



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.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 DemoPriority {
    @Test ()
    public void f() {
    }
    @AfterMethod
```

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```
public void afterMethod() {
      System.out.println("after Method");
@BeforeMethod
public void beforeMethod() {
      System.out.println("Before Method");
}
@BeforeClass
public void beforeClass() {
      System.out.println("Before Class");
} @AfterClass
public void afterClass() {
      System.out.println("After Class");
@BeforeTest
public void beforeTest() {
      System.out.println("Before Test");
@AfterTest
public void afterTest() {
      System.out.println("After Test");
}
@BeforeSuite
public void beforeSuite() {
      System.out.println("Before Suite");
@AfterSuite
```

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public void afterSuite() {

System.out.println("After Suite");
}

#### **Output:**

```
I 🖳 Console 🗶
<terminated> DemoPriority [TestNG] C:\Program Files\Java\jdk-22.0.2\bin\javaw.exe (Oct 17, 2024, 1:43:05 PM –
 [RemoteTestNG] detected TestNG version 6.8.2
 [TestNG] Running:
  C:\Users\Admin\AppData\Local\Temp\testng-eclipse--761937454\testng-customsuite.x
 Before Suite
 Before Test
 Before Class
 Before Method
 after Method
 After Class
 After Test
 PASSED: f
   _____
    Default test
    Tests run: 1, Failures: 0, Skips: 0
 _____
 AFter Suite
Default suite
```

## **Aim: Demonstrate Assertion TestNg Framework**

```
package testng;
import org.openqa.*;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;
import org.testng.annotations.Test;
public class AssertFa {
    @Test
```

```
public void Bvimit() {
System.setProperty("webdriver.chrome.driver","D:\\Selenium\\chromedriver-
win64 (5)\\chromedriver-win64\\chromedriver.exe");
      WebDriver wd = new ChromeDriver();
      wd.get("https://www.facebook.com/");
      String expectedTitle = "Facebook";
      String actualTitle = wd.getTitle();
      Assert.assertEquals(actualTitle, expectedTitle);
      System.out.println("Title of webpage====>"+actualTitle);
      }
}
Q.
package testng;
import org.testng.annotations.Test;
import java.util.concurrent.TimeUnit;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.chrome.ChromeDriver;
import org.testng.annotations.DataProvider;
public class DataOhm {
      @Test(dataProvider="dp")
      public void f(String u, String p) {
System.setProperty("webdriver.chrome.driver","D:\\Selenium\\chromedriver-
win64 (5)\\chromedriver-win64\\chromedriver.exe");
              WebDriver wd= new ChromeDriver();
             wd.get("https://demo.guru99.com/test/newtours/");
             wd.manage().timeouts().implicitlyWait(20,TimeUnit.SECONDS);
```

# Output:

```
at org.testng.TestNG.runSuitesLocally(TestNG.java:1149)
at org.testng.TestNG.run(TestNG.java:1057)
at org.testng.remote.AbstractRemoteTestNG.run(AbstractRemoteTestNG.java:1
at org.testng.remote.RemoteTestNG.initAndRun(RemoteTestNG.java:293)
at org.testng.remote.RemoteTestNG.main(RemoteTestNG.java:91)

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

Default suite
otal tests run: 1, Failures: 1, Skips: 0

TestNG] Time taken by org.testng.reporters.EmailableReporter2@1c7696c6: 17 ms
TestNG] Time taken by org.testng.reporters.YMLReporter@2794eah6: 7 ms
```

## **<u>Aim:</u>** Demonstrate data driven Framework

```
package testng;
import org.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.apache.poi.xssf.usermodel.XSSFSheet;
import org.apache.poi.xssf.usermodel.XSSFRow;
import org.apache.poi.xssf.usermodel.XSSFCell;
import java.io.FileInputStream;
public class ReadDDF {
  public static void main(String[] args) {
       FileInputStream fis = new
FileInputStream("C:\\Users\\Admin\\Documents\\Data1.xlsx");
       XSSFWorkbook workbook = new XSSFWorkbook(fis):
       XSSFSheet sheet = workbook.getSheet("Sheet1");
       for (int i = 0; i \le \text{sheet.getLastRowNum}(); i++) {
         XSSFRow row = sheet.getRow(i);
         if (row != null) { // Check if the row is not null
           XSSFCell usernameCell = row.getCell(0);
           XSSFCell passwordCell = row.getCell(1);
           // Get cell values safely
           String username = (usernameCell != null)?
usernameCell.getStringCellValue(): "N/A";
           String password = (passwordCell != null)?
passwordCell.getStringCellValue(): "N/A";
           System.out.println(username + " " + password);
       fis.close();
       workbook.close();
     } catch (Exception e) {
       e.printStackTrace(); // Print any exceptions that occur
  }
}
```

# **Output:**

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	А	В	С
1	pqr	xyz123	
2	admin	admin123	
3			
4			
5			
6			
7			

### Aim: Data driver to guru 99 website

```
import java.io.FileInputStream;
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.apache.poi.xssf.usermodel.XSSFWorkbook;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
public class wdata {
    public static void main(String args[]) throws InterruptedException, IOException {
        // Initialize WebDriver
```

```
WebDriver wd = new ChromeDriver();
// Open the URL
wd.get("https://demo.guru99.com/test/newtours/");
Thread.sleep(3000);
// Read data from Excel file
FileInputStream fis = new FileInputStream("D:\\Selenium\\data2.xlsx");
XSSFWorkbook wk = new XSSFWorkbook(fis);
XSSFSheet sh = wk.getSheet("Sheet1");
// Iterate through rows
for (int i = 0; i <= sh.getLastRowNum(); i++) {
  XSSFRow rw = sh.getRow(i);
  XSSFCell un = rw.getCell(0);
  XSSFCell pw = rw.getCell(1);
  XSSFCell res = rw.createCell(2);
  // Perform actions on the website
  wd.findElement(By.name("userName")).sendKeys(un.toString());
  wd.findElement(By.name("password")).sendKeys(pw.toString());
  wd.findElement(By.name("submit")).click();
  // Print login details
  System.out.println(un + " " + pw);
// Close workbook and file input stream
wk.close();
fis.close();
```

# Output:

Chrome is being controlled by automated test software.





Selenium - Insurance Project Agile Project Bank Project Security Project Telecom Project

Payment Gateway Project New Tours SEO -

