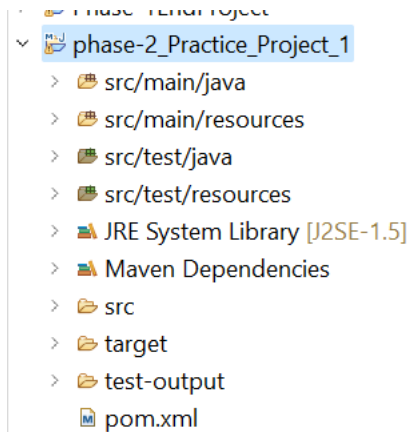


Phase-2 Practice Project 1

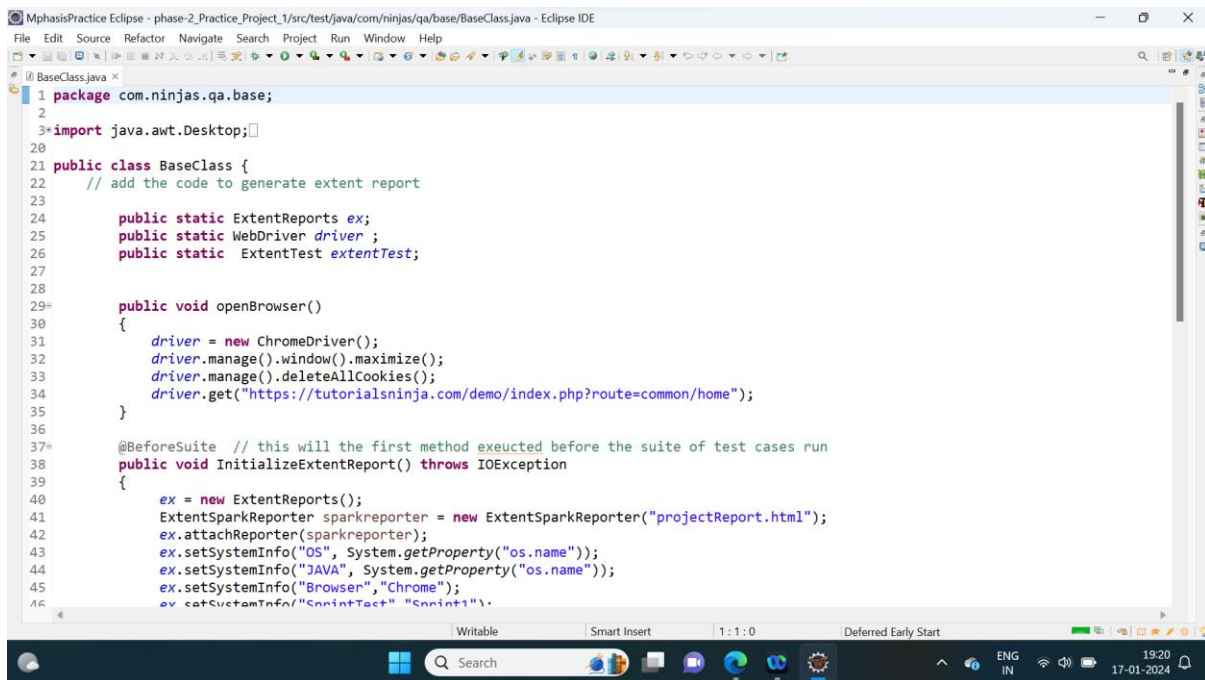
Step 1:

Create phase2-Practice-Project-1 and add dependencies into pom.xml file

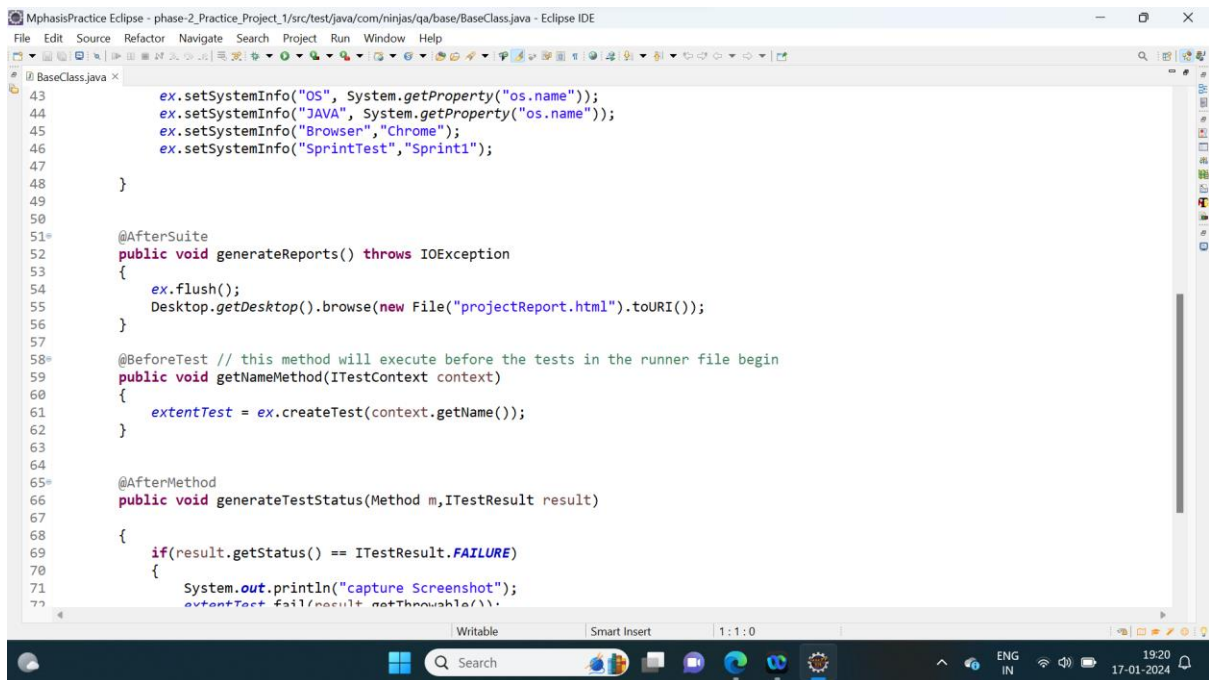


Step 2:

Create All Required Classes as given below

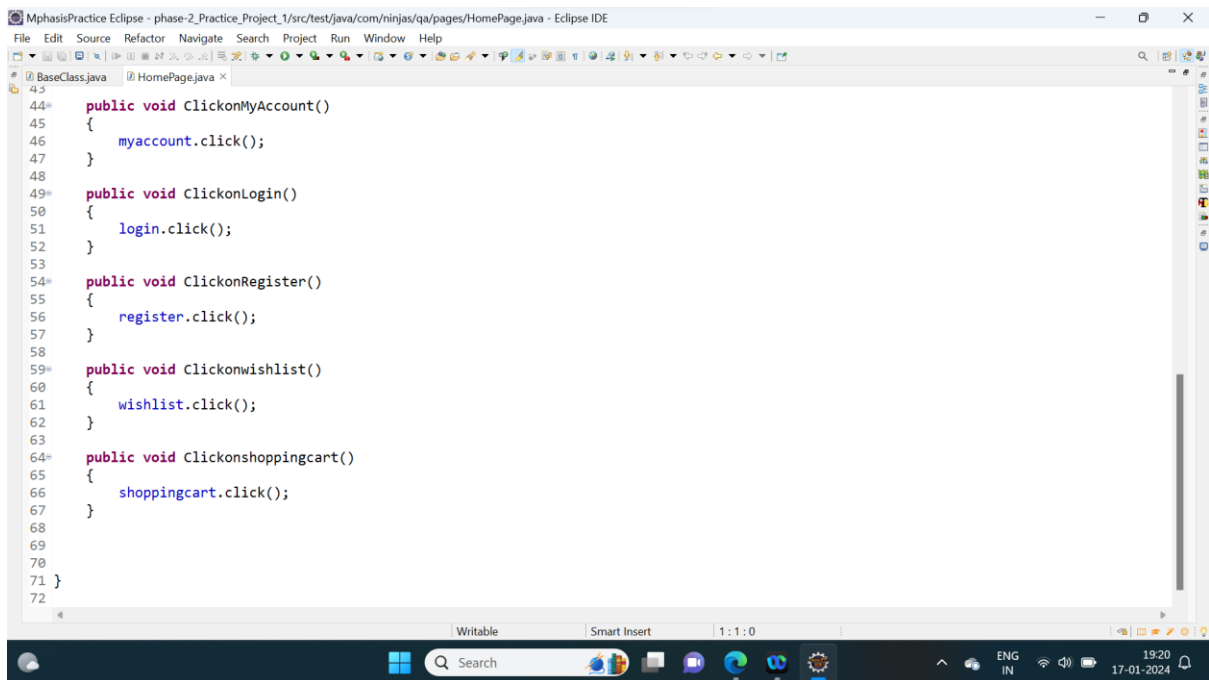


Phase-2 Practice Project 1



The screenshot shows the Eclipse IDE with the file `BaseClass.java` open. The code is a Java class with several methods and annotations. The methods include `generateReports()`, `getNameMethod()`, and `generateTestStatus()`. The `generateTestStatus()` method includes a conditional check for `FAILURE` and a call to `captureScreenshot()`. The IDE interface includes a menu bar, a toolbar, and a status bar at the bottom.

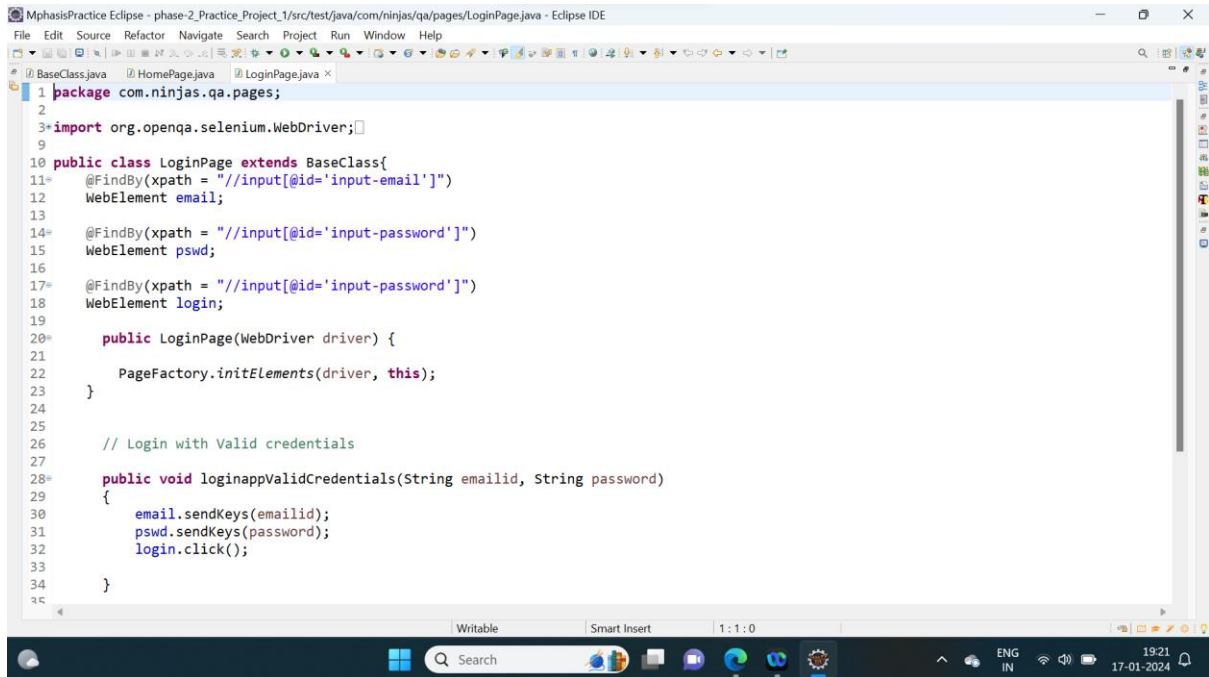
```
43      ex.setSystemInfo("OS", System.getProperty("os.name"));
44      ex.setSystemInfo("JAVA", System.getProperty("os.name"));
45      ex.setSystemInfo("Browser", "Chrome");
46      ex.setSystemInfo("SprintTest", "Sprint1");
47
48  }
49
50
51  @AfterSuite
52  public void generateReports() throws IOException
53  {
54      ex.flush();
55      Desktop.getDesktop().browse(new File("projectReport.html").toURI());
56  }
57
58  @BeforeTest // this method will execute before the tests in the runner file begin
59  public void getNameMethod(ITestContext context)
60  {
61      extentTest = ex.createTest(context.getName());
62  }
63
64
65  @AfterMethod
66  public void generateTestStatus(Method m, ITestResult result)
67  {
68
69      if(result.getStatus() == ITestResult.FAILURE)
70      {
71          System.out.println("capture Screenshot");
72          extentTest.fail(result.getThrowable());
73      }
```



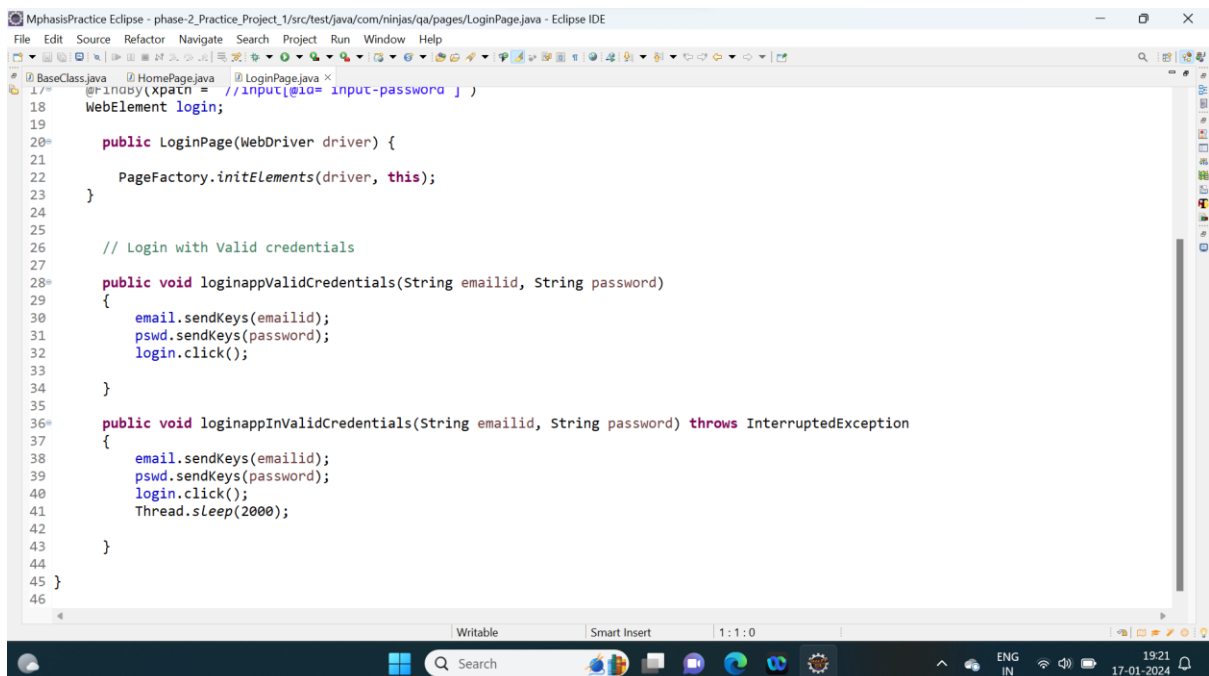
The screenshot shows the Eclipse IDE with the file `HomePage.java` open. The code is a Java class with several methods, each representing a click action on a specific element. The methods include `ClickonMyAccount()`, `ClickonLogin()`, `ClickonRegister()`, `Clickonwishlist()`, and `Clickonshoppingcart()`. The IDE interface includes a menu bar, a toolbar, and a status bar at the bottom.

```
44  public void ClickonMyAccount()
45  {
46      myaccount.click();
47  }
48
49  public void ClickonLogin()
50  {
51      login.click();
52  }
53
54  public void ClickonRegister()
55  {
56      register.click();
57  }
58
59  public void Clickonwishlist()
60  {
61      wishlist.click();
62  }
63
64  public void Clickonshoppingcart()
65  {
66      shoppingcart.click();
67  }
68
69
70
71 }
72
```

Phase-2 Practice Project 1

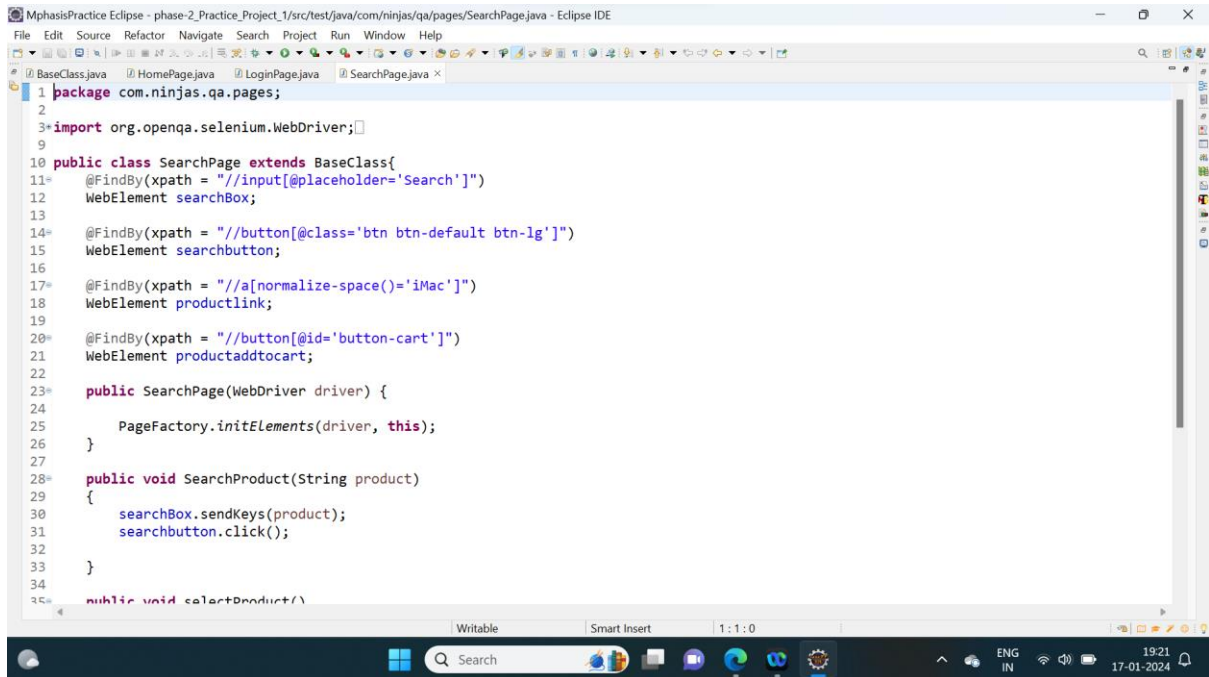


```
1 package com.ninjas.qa.pages;
2
3 import org.openqa.selenium.WebDriver;
4
5
6
7
8
9
10 public class LoginPage extends BaseClass{
11     @FindBy(xpath = "//input[@id='input-email']")
12     WebElement email;
13
14     @FindBy(xpath = "//input[@id='input-password']")
15     WebElement pswd;
16
17     @FindBy(xpath = "//input[@id='input-password']")
18     WebElement login;
19
20     public LoginPage(WebDriver driver) {
21         PageFactory.initElements(driver, this);
22     }
23
24
25
26     // Login with Valid credentials
27
28     public void loginappValidCredentials(String emailid, String password)
29     {
30         email.sendKeys(emailid);
31         pswd.sendKeys(password);
32         login.click();
33     }
34
35 }
```

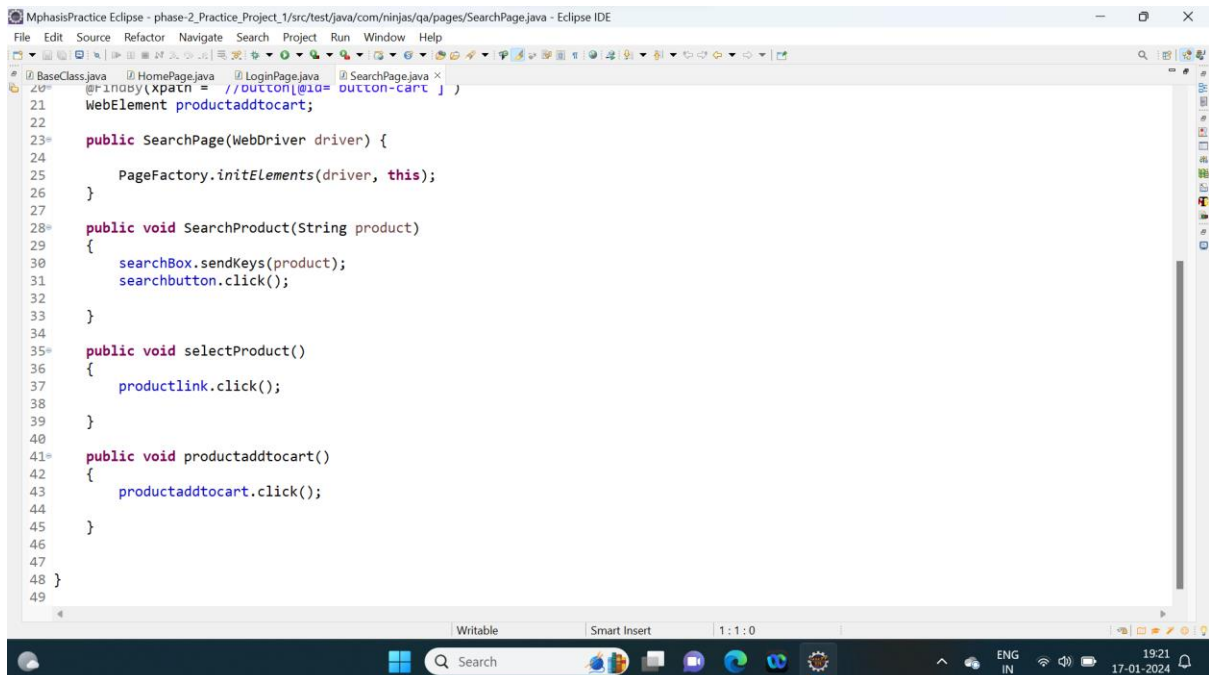


```
17 @FindBy(xpath = "//input[@id='input-password']")
18 WebElement login;
19
20 public LoginPage(WebDriver driver) {
21     PageFactory.initElements(driver, this);
22 }
23
24
25
26 // Login with Valid credentials
27
28 public void loginappValidCredentials(String emailid, String password)
29 {
30     email.sendKeys(emailid);
31     pswd.sendKeys(password);
32     login.click();
33 }
34
35
36 public void loginappInvalidCredentials(String emailid, String password) throws InterruptedException
37 {
38     email.sendKeys(emailid);
39     pswd.sendKeys(password);
40     login.click();
41     Thread.sleep(2000);
42 }
43
44 }
45
46 }
```

Phase-2 Practice Project 1

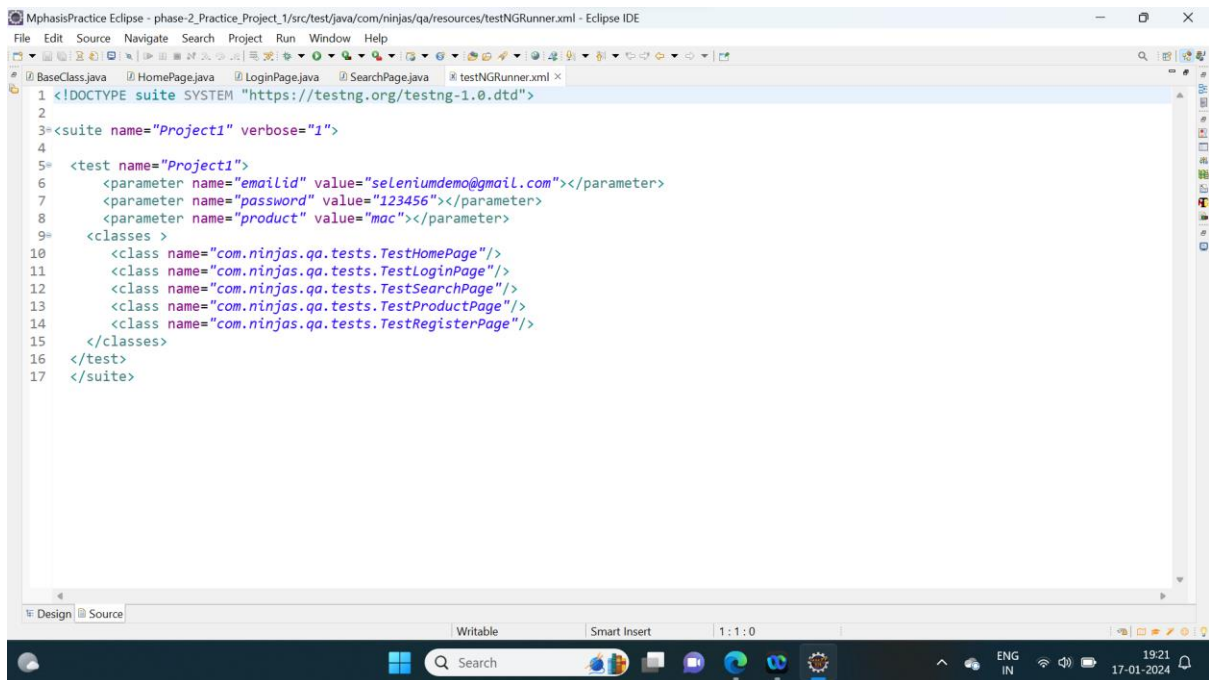


```
1 package com.ninjas.qa.pages;
2
3 import org.openqa.selenium.WebDriver;
4
5
6
7
8
9
10 public class SearchPage extends BaseClass{
11     @FindBy(xpath = "//input[@placeholder='Search']")
12     WebElement searchBox;
13
14     @FindBy(xpath = "//button[@class='btn btn-default btn-lg']")
15     WebElement searchbutton;
16
17     @FindBy(xpath = "//a[normalize-space()='iMac']")
18     WebElement productlink;
19
20     @FindBy(xpath = "//button[@id='button-cart']")
21     WebElement productaddtocart;
22
23     public SearchPage(WebDriver driver) {
24
25         PageFactory.initElements(driver, this);
26     }
27
28     public void SearchProduct(String product)
29     {
30         searchBox.sendKeys(product);
31         searchbutton.click();
32     }
33
34     public void selectProduct()
```



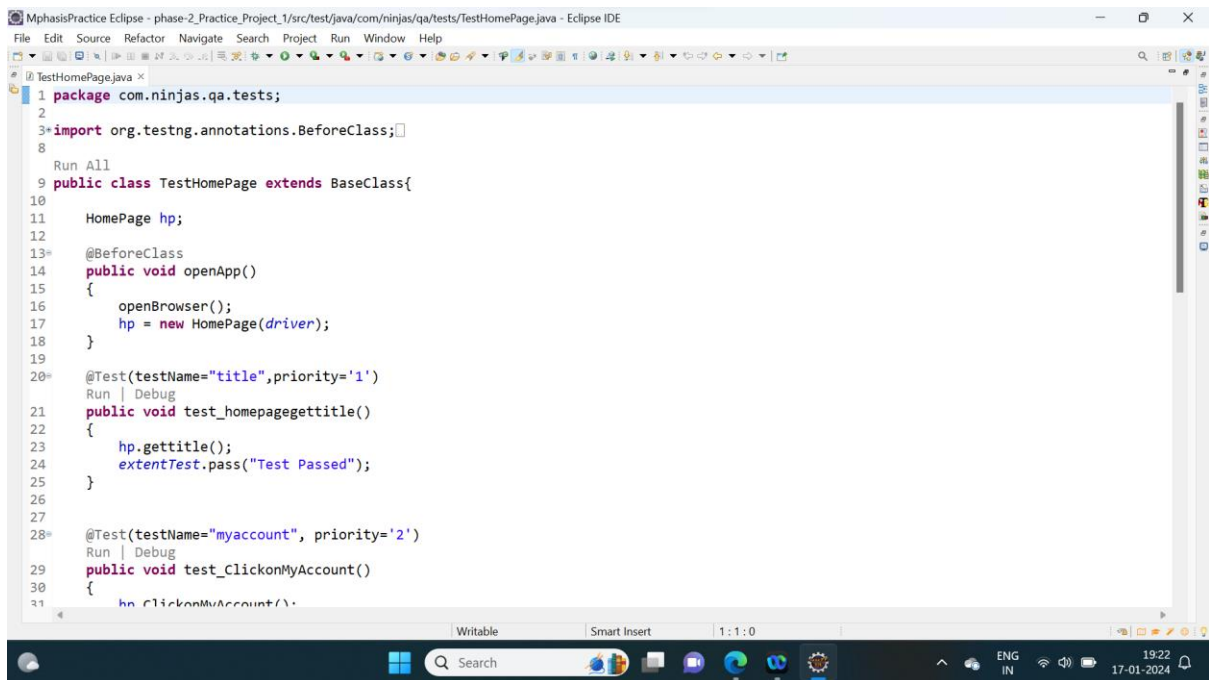
```
21     WebElement productaddtocart;
22
23     public SearchPage(WebDriver driver) {
24
25         PageFactory.initElements(driver, this);
26     }
27
28     public void SearchProduct(String product)
29     {
30         searchBox.sendKeys(product);
31         searchbutton.click();
32     }
33
34     public void selectProduct()
35     {
36         productlink.click();
37     }
38
39
40
41     public void productaddtocart()
42     {
43         productaddtocart.click();
44     }
45
46
47
48 }
49
```

Phase-2 Practice Project 1



The screenshot shows the Eclipse IDE with the file `testNGRunner.xml` open. The XML content is as follows:

```
1 <!DOCTYPE suite SYSTEM "https://testng.org/testng-1.0.dtd">
2
3 <suite name="Project1" verbose="1">
4
5   <test name="Project1">
6     <parameter name="emailid" value="seleniumdemo@gmail.com"></parameter>
7     <parameter name="password" value="123456"></parameter>
8     <parameter name="product" value="mac"></parameter>
9     <classes>
10      <class name="com.ninjas.qa.tests.TestHomePage"/>
11      <class name="com.ninjas.qa.tests.TestLoginPage"/>
12      <class name="com.ninjas.qa.tests.TestSearchPage"/>
13      <class name="com.ninjas.qa.tests.TestProductPage"/>
14      <class name="com.ninjas.qa.tests.TestRegisterPage"/>
15    </classes>
16  </test>
17 </suite>
```



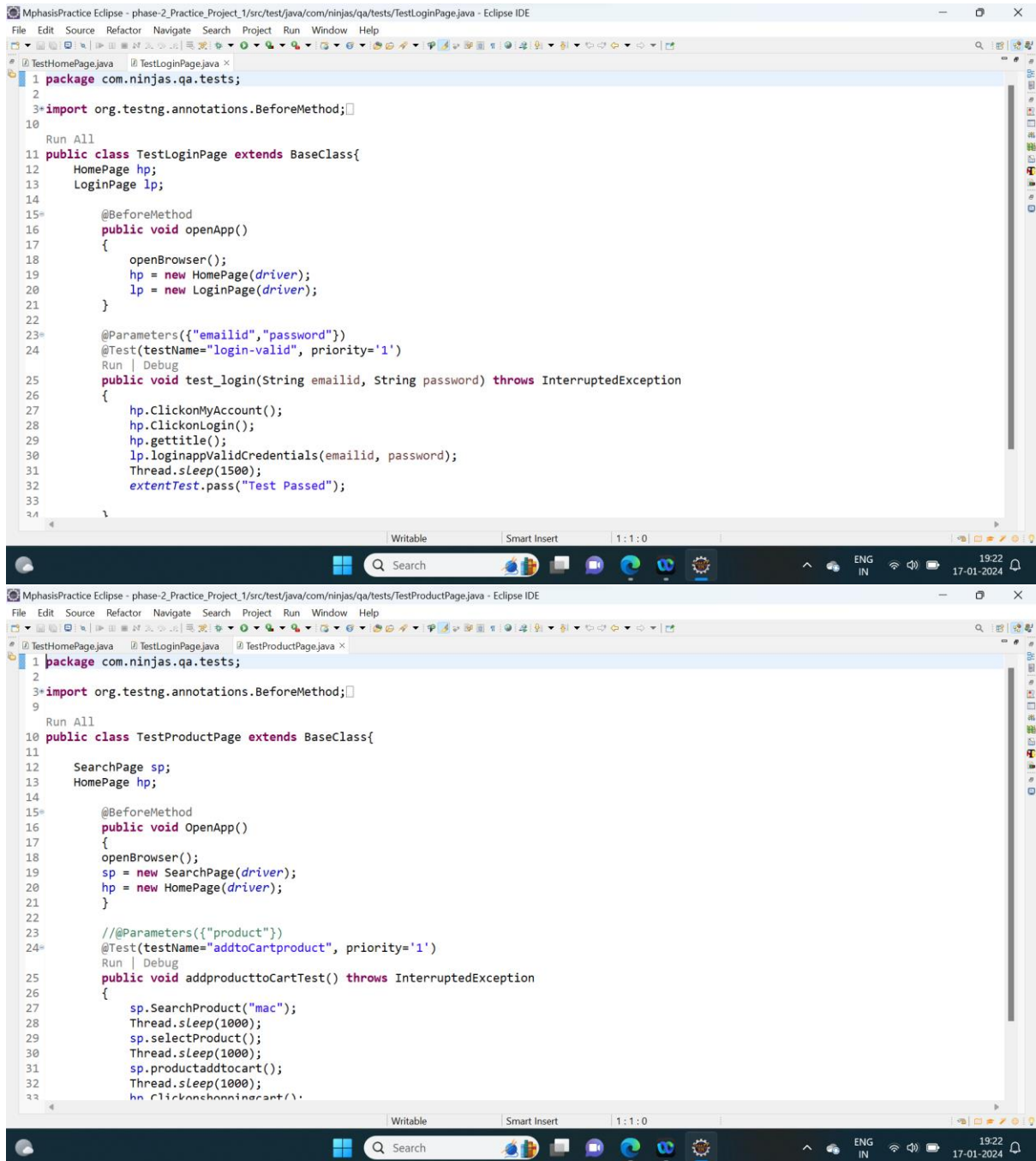
The screenshot shows the Eclipse IDE with the file `TestHomePage.java` open. The Java code is as follows:

```
1 package com.ninjas.qa.tests;
2
3 import org.testng.annotations.BeforeClass;
4
5 Run All
6 public class TestHomePage extends BaseClass{
7
8   HomePage hp;
9
10  @BeforeClass
11  public void openApp()
12  {
13    openBrowser();
14    hp = new HomePage(driver);
15  }
16
17  @Test(testName="title",priority='1')
18  Run | Debug
19  public void test_homepagegettitle()
20  {
21    hp.gettitle();
22    extentTest.pass("Test Passed");
23  }
24
25  @Test(testName="myaccount", priority='2')
26  Run | Debug
27  public void test_ClickonMyAccount()
28  {
29    hp_ClickonMyAccount();
30  }
31 }
```

Phase-2 Practice Project 1

```
27
28 @Test(testName="myaccount", priority='2')
29 Run | Debug
30 public void test_ClickonMyAccount()
31 {
32     hp.ClickonMyAccount();
33     System.out.println(driver.getTitle());
34     extentTest.pass("Test Passed");
35 }
36
37 @Test(testName="loginlink", priority='3')
38 Run | Debug
39 public void test_ClickonLogin()
40 {
41     hp.ClickonLogin();
42     System.out.println(driver.getTitle());
43     extentTest.pass("Test Passed");
44 }
45
46
47 @Test(testName="registerpage",priority='4')
48 Run | Debug
49 public void test_ClickonRegister() throws InterruptedException
50 {
51     hp.ClickonMyAccount();
52     Thread.sleep(1000);
53     hp.ClickonRegister();
54     System.out.println(driver.getTitle());
55 }
56
57
58 @Test(testName="registerpage",priority='4')
59 Run | Debug
60 public void test_ClickonRegister() throws InterruptedException
61 {
62     hp.ClickonMyAccount();
63     Thread.sleep(1000);
64     hp.ClickonRegister();
65     System.out.println(driver.getTitle());
66     extentTest.pass("Test Passed");
67 }
68
69
70 @Test(testName="wishlist",priority='5')
71 Run | Debug
72 public void test_ClickonWishlist()
73 {
74     hp.Clickonwishlist();
75     System.out.println(driver.getTitle());
76     extentTest.pass("Test Passed");
77 }
78
79
80 @Test(testName="cart" , priority='6')
81 Run | Debug
82 public void test_ClickonShoppingcart()
83 {
84     hp.Clickonshoppingcart();
85     System.out.println(driver.getTitle());
86     extentTest.pass("Test Passed");
87 }
88
```


Phase-2 Practice Project 1



The image displays two screenshots of the Eclipse IDE, showing Java test code for a login page and a product page.

Top Screenshot: TestLoginPage.java

```
1 package com.ninjas.qa.tests;
2
3 import org.testng.annotations.BeforeMethod;
4
5
6
7
8
9
10
11 public class TestLoginPage extends BaseClass{
12     HomePage hp;
13     LoginPage lp;
14
15     @BeforeMethod
16     public void openApp()
17     {
18         openBrowser();
19         hp = new HomePage(driver);
20         lp = new LoginPage(driver);
21     }
22
23     @Parameters({"emailid", "password"})
24     @Test(testName="login-valid", priority='1')
25     public void test_login(String emailid, String password) throws InterruptedException
26     {
27         hp.ClickonMyAccount();
28         hp.ClickonLogin();
29         hp.gettitle();
30         lp.loginappValidCredentials(emailid, password);
31         Thread.sleep(1500);
32         extentTest.pass("Test Passed");
33     }
34 }
```

Bottom Screenshot: TestProductPage.java

```
1 package com.ninjas.qa.tests;
2
3 import org.testng.annotations.BeforeMethod;
4
5
6
7
8
9
10 public class TestProductPage extends BaseClass{
11
12     SearchPage sp;
13     HomePage hp;
14
15     @BeforeMethod
16     public void OpenApp()
17     {
18         openBrowser();
19         sp = new SearchPage(driver);
20         hp = new HomePage(driver);
21     }
22
23     // @Parameters({"product"})
24     @Test(testName="addtoCartproduct", priority='1')
25     public void addproducttoCartTest() throws InterruptedException
26     {
27         sp.SearchProduct("mac");
28         Thread.sleep(1000);
29         sp.selectProduct();
30         Thread.sleep(1000);
31         sp.productaddtocart();
32         Thread.sleep(1000);
33         hp.Clickonshoppingcart();
34     }
35 }
```

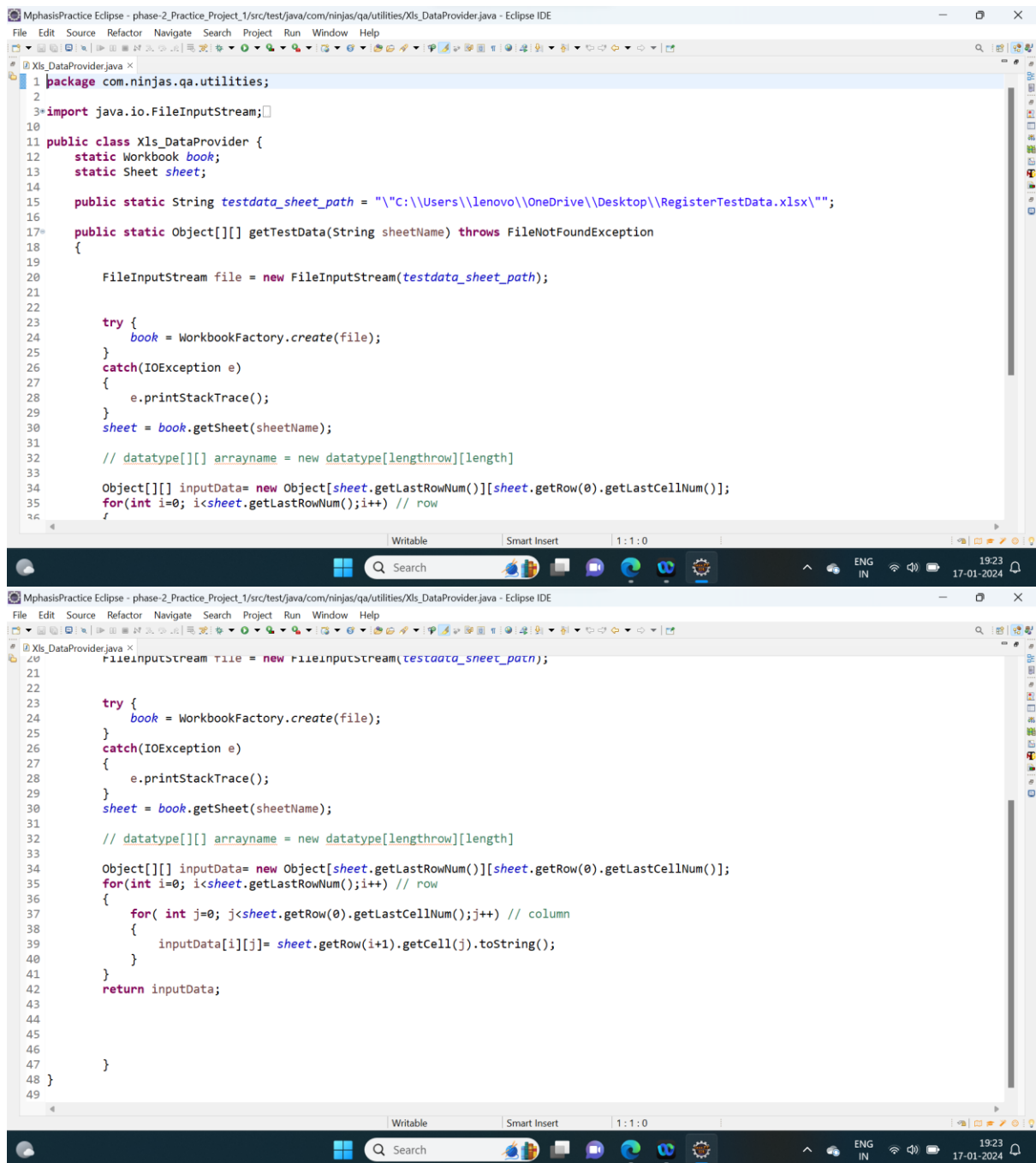
Phase-2 Practice Project 1

The image shows two screenshots of the Eclipse IDE. The top screenshot displays the `TestProductPage.java` file, and the bottom screenshot displays the `TestSearchPage.java` file. Both files are part of the `com.ninjas.qa.tests` package and extend the `BaseClass`.

```
10 public class TestProductPage extends BaseClass{
11
12     SearchPage sp;
13     HomePage hp;
14
15     @BeforeMethod
16     public void OpenApp()
17     {
18         openBrowser();
19         sp = new SearchPage(driver);
20         hp = new HomePage(driver);
21     }
22
23     //Parameters({"product"})
24     @Test(testName="addtoCartproduct", priority='1')
25     public void addproducttoCartTest() throws InterruptedException
26     {
27         sp.SearchProduct("mac");
28         Thread.sleep(1000);
29         sp.selectProduct();
30         Thread.sleep(1000);
31         sp.productaddtocart();
32         Thread.sleep(1000);
33         hp.Clickonshoppingcart();
34     }
35
36 }
37
38
```

```
1 package com.ninjas.qa.tests;
2
3 import org.testng.annotations.BeforeMethod;
4
5 Run All
6 public class TestSearchPage extends BaseClass{
7
8     SearchPage sp;
9
10    @BeforeMethod
11    public void OpenApp()
12    {
13        openBrowser();
14        sp = new SearchPage(driver);
15    }
16
17    @Parameters({"product"})
18    @Test(testName="productentry", priority='1')
19    public void test_searchProduct(String product)
20    {
21        sp.SearchProduct(product);
22    }
23
24 }
25
```


Phase-2 Practice Project 1

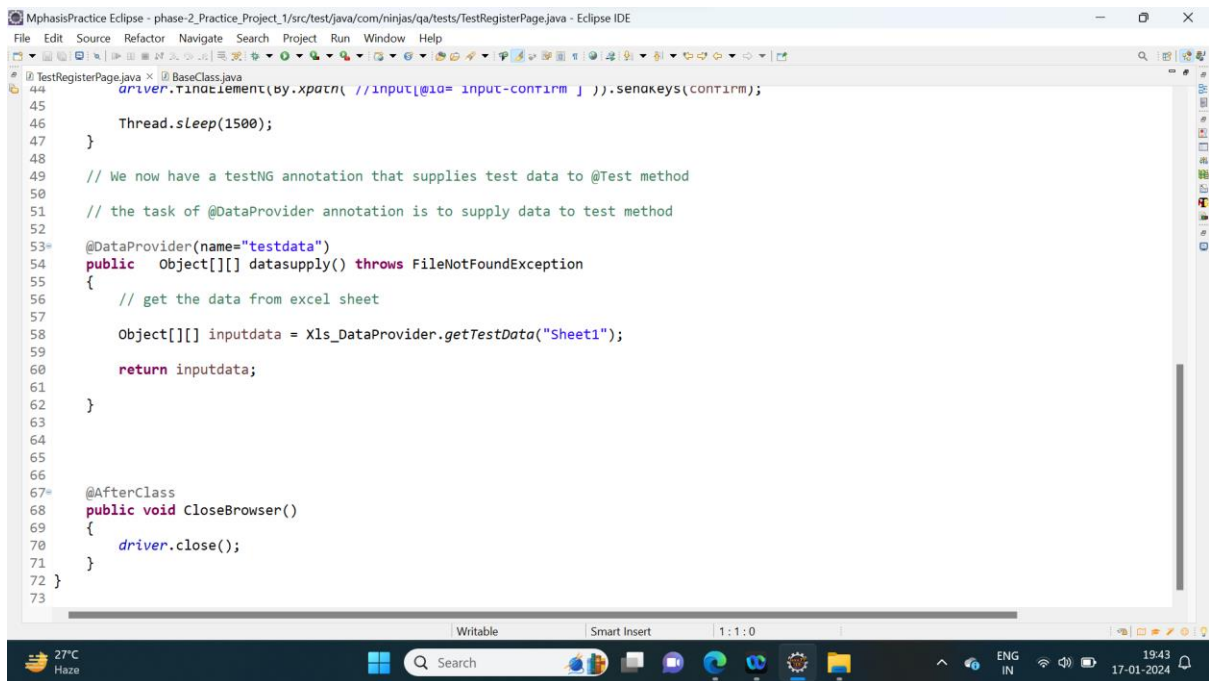


```
1 package com.ninjas.qa.utilities;
2
3 import java.io.FileInputStream;
4
5
6
7
8
9
10
11 public class Xls_DataProvider {
12     static Workbook book;
13     static Sheet sheet;
14
15     public static String testdata_sheet_path = "\\C:\\Users\\lenovo\\OneDrive\\Desktop\\RegisterTestData.xlsx\\";
16
17     public static Object[][] getTestData(String sheetName) throws FileNotFoundException
18     {
19
20         FileInputStream file = new FileInputStream(testdata_sheet_path);
21
22
23         try {
24             book = WorkbookFactory.create(file);
25         }
26         catch(IOException e)
27         {
28             e.printStackTrace();
29         }
30         sheet = book.getSheet(sheetName);
31
32         // datatype[][] arrayname = new datatype[length][length]
33
34         Object[][] inputData= new Object[sheet.getLastRowNum()][sheet.getRow(0).getLastCellNum()];
35         for(int i=0; i<sheet.getLastRowNum();i++) // row
36         {
37             for( int j=0; j<sheet.getRow(0).getLastCellNum();j++) // column
38             {
39                 inputData[i][j]= sheet.getRow(i+1).getCell(j).toString();
40             }
41         }
42         return inputData;
43     }
44 }
45
46
47
48
49
```

Phase-2 Practice Project 1

```
1 package com.ninjas.qa.tests;
2
3 import java.io.FileNotFoundException;
4
5
6
7
8
9
10
11
12
13
14
15
16 public class TestRegisterPage extends BaseClass{
17
18     public static WebDriver driver;
19
20     @BeforeClass
21     public void openBrowser()
22     {
23         driver = new ChromeDriver();
24         driver.manage().window().maximize();
25         driver.get("https://tutorialsninja.com/demo/index.php?route=account/register");
26     }
27
28     // Test method which should get data from excel sheet
29
30     @Test(dataProvider = "testdata")
31     public void register_user(String username, String lastName, String email, String telephone, String password, String confirm ) throws
32     {
33         driver.findElement(By.xpath("//input[@id='input-firstname']")).clear();
34         driver.findElement(By.xpath("//input[@id='input-firstname']")).sendKeys(username);
35         driver.findElement(By.xpath("//input[@id='input-lastname']")).clear();
36         driver.findElement(By.xpath("//input[@id='input-lastname']")).sendKeys(lastName);
37         driver.findElement(By.xpath("//input[@id='input-email']")).clear();
38         driver.findElement(By.xpath("//input[@id='input-email']")).sendKeys(email);
39         driver.findElement(By.xpath("//input[@id='input-telephone']")).clear();
40         driver.findElement(By.xpath("//input[@id='input-telephone']")).sendKeys(telephone);
41         driver.findElement(By.xpath("//input[@id='input-password']")).clear();
42         driver.findElement(By.xpath("//input[@id='input-password']")).sendKeys(password);
43         driver.findElement(By.xpath("//input[@id='input-confirm']")).clear();
44         driver.findElement(By.xpath("//input[@id='input-confirm']")).sendKeys(confirm);
45
46         Thread.sleep(1500);
47     }
48
49     // We now have a testNG annotation that supplies test data to @Test method
50
51     // the task of @DataProvider annotation is to supply data to test method
52
53     @DataProvider(name="testdata")
54     public Object[][] datasupply() throws FileNotFoundException
55     {
56         // get the data from excel sheet
57
58         Object[][] inputdata = Xls_DataProvider.getTestData("Sheet1");
59
60         return inputdata;
61     }
62
63
64
65
66
67
68     @AfterClass
69     public void CloseBrowser()
```

Phase-2 Practice Project 1

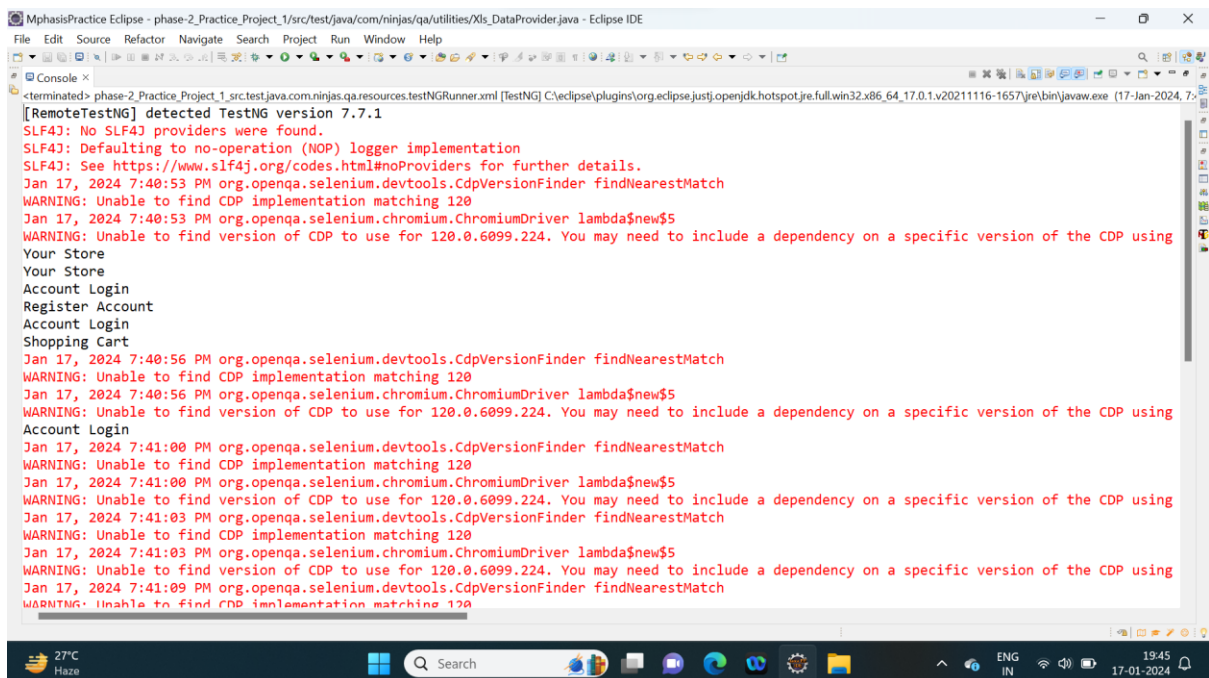


The screenshot shows the Eclipse IDE with the file `TestRegisterPage.java` open. The code is as follows:

```
44 driver.findElement(By.xpath("//input[@id='input-confirm']")).sendKeys(confirm);
45
46 Thread.sleep(1500);
47 }
48
49 // We now have a testNG annotation that supplies test data to @Test method
50
51 // the task of @DataProvider annotation is to supply data to test method
52
53 @DataProvider(name="testdata")
54 public Object[][] datasupply() throws FileNotFoundException
55 {
56     // get the data from excel sheet
57     Object[][] inputdata = Xls_DataProvider.getTestData("Sheet1");
58     return inputdata;
59 }
60
61
62 }
63
64
65
66
67 @AfterClass
68 public void CloseBrowser()
69 {
70     driver.close();
71 }
72 }
73
```

Step 2:

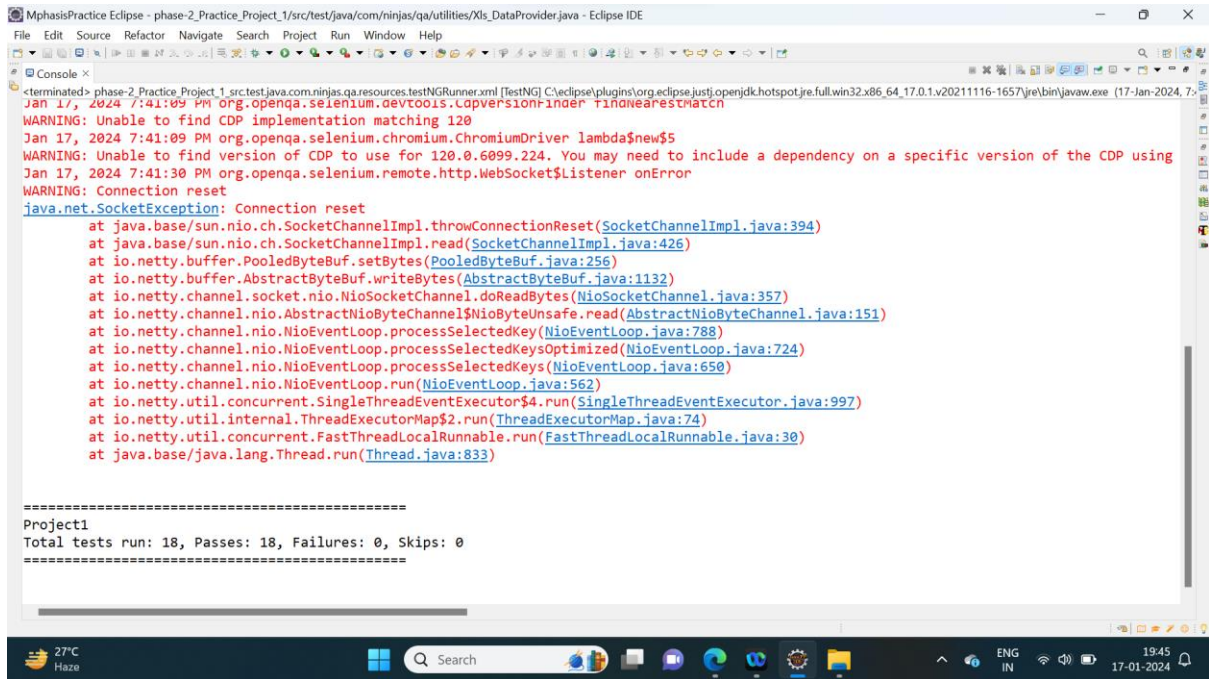
Run the testNGRunner.xml file



The screenshot shows the Eclipse IDE with the console output of the testNGRunner.xml file. The output is as follows:

```
<terminated> phase-2_Practice_Project_1_src\test\java\com\ninjas\qa\resources\testNGRunner.xml [TestNG] C:\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64.17.0.1.v20211116-1657\jre\bin\javaw.exe (17-Jan-2024, 7:40:53 PM)
[RemoteTestNG] detected TestNG version 7.7.1
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.
Jan 17, 2024 7:40:53 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 120
Jan 17, 2024 7:40:53 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 120.0.6099.224. You may need to include a dependency on a specific version of the CDP using
Your Store
Your Store
Account Login
Register Account
Account Login
Shopping Cart
Jan 17, 2024 7:40:56 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 120
Jan 17, 2024 7:40:56 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 120.0.6099.224. You may need to include a dependency on a specific version of the CDP using
Account Login
Jan 17, 2024 7:41:00 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 120
Jan 17, 2024 7:41:00 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 120.0.6099.224. You may need to include a dependency on a specific version of the CDP using
Jan 17, 2024 7:41:03 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 120
Jan 17, 2024 7:41:03 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 120.0.6099.224. You may need to include a dependency on a specific version of the CDP using
Jan 17, 2024 7:41:09 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 120
```

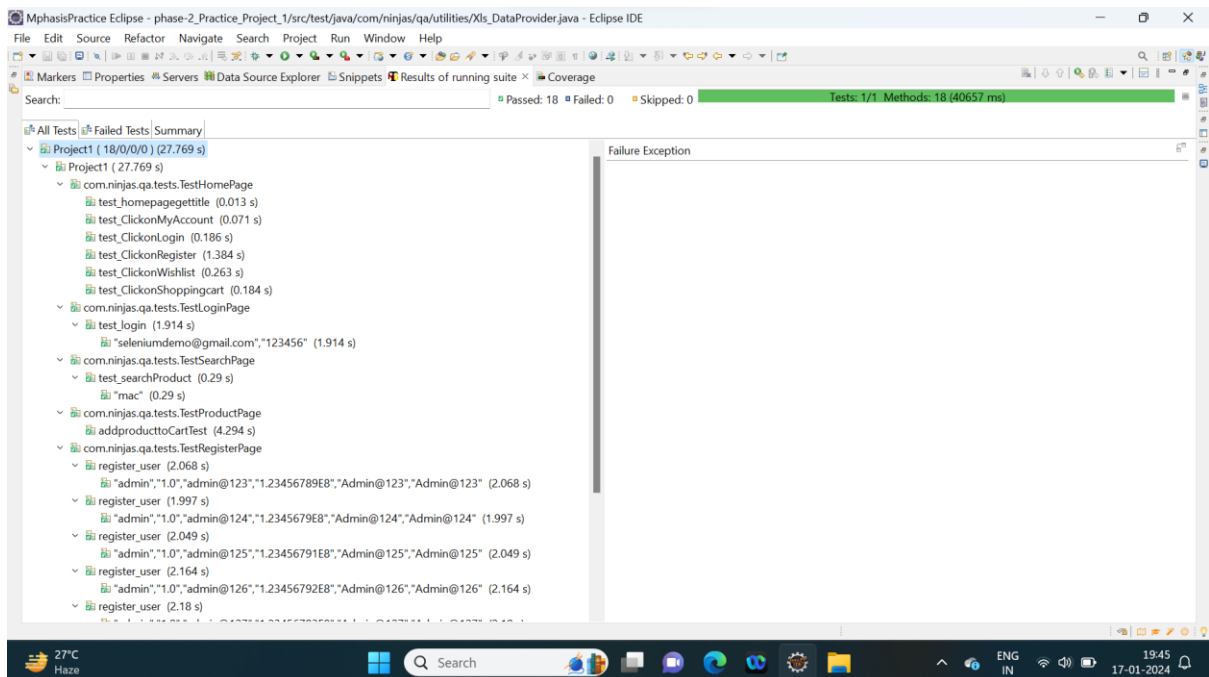
Phase-2 Practice Project 1



The screenshot shows the Eclipse IDE console with the following output:

```
<terminated> phase-2_Practice_Project_1_src.test.java.com.ninjas.qa.resources.testNGRunner.xml [TestNG] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.1.v20211116-1657\jre\bin\javaw.exe (17-Jan-2024, 7:41:09 PM)
Jan 17, 2024 7:41:09 PM org.openqa.selenium.devtools.CdpVersionFinder.findNearestMatch
WARNING: Unable to find CDP implementation matching 120
Jan 17, 2024 7:41:09 PM org.openqa.selenium.chromium.ChromiumDriver.lambda$new$5
WARNING: Unable to find version of CDP to use for 120.0.6099.224. You may need to include a dependency on a specific version of the CDP using
Jan 17, 2024 7:41:30 PM org.openqa.selenium.remote.http.WebSocket$Listener onError
WARNING: Connection reset
java.net.SocketException: Connection reset
    at java.base/sun.nio.ch.SocketChannelImpl.throwConnectionReset(SocketChannelImpl.java:394)
    at java.base/sun.nio.ch.SocketChannelImpl.read(SocketChannelImpl.java:426)
    at io.netty.buffer.PooledByteBuf.setBytes(PooledByteBuf.java:256)
    at io.netty.buffer.AbstractByteBuf.writeBytes(AbstractByteBuf.java:1132)
    at io.netty.channel.socket.nio.NioSocketChannel.doReadBytes(NioSocketChannel.java:357)
    at io.netty.channel.nio.AbstractNioByteChannel$NioByteUnsafe.read(AbstractNioByteChannel.java:151)
    at io.netty.channel.nio.NioEventLoop.processSelectedKey(NioEventLoop.java:788)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeysOptimized(NioEventLoop.java:724)
    at io.netty.channel.nio.NioEventLoop.processSelectedKeys(NioEventLoop.java:650)
    at io.netty.channel.nio.NioEventLoop.run(NioEventLoop.java:562)
    at io.netty.util.concurrent.SingleThreadEventExecutor$4.run(SingleThreadEventExecutor.java:997)
    at io.netty.util.internal.ThreadExecutorMap$2.run(ThreadExecutorMap.java:74)
    at io.netty.util.concurrent.FastThreadLocalRunnable.run(FastThreadLocalRunnable.java:30)
    at java.base/java.lang.Thread.run(Thread.java:833)

=====
Project1
Total tests run: 18, Passes: 18, Failures: 0, Skips: 0
=====
```



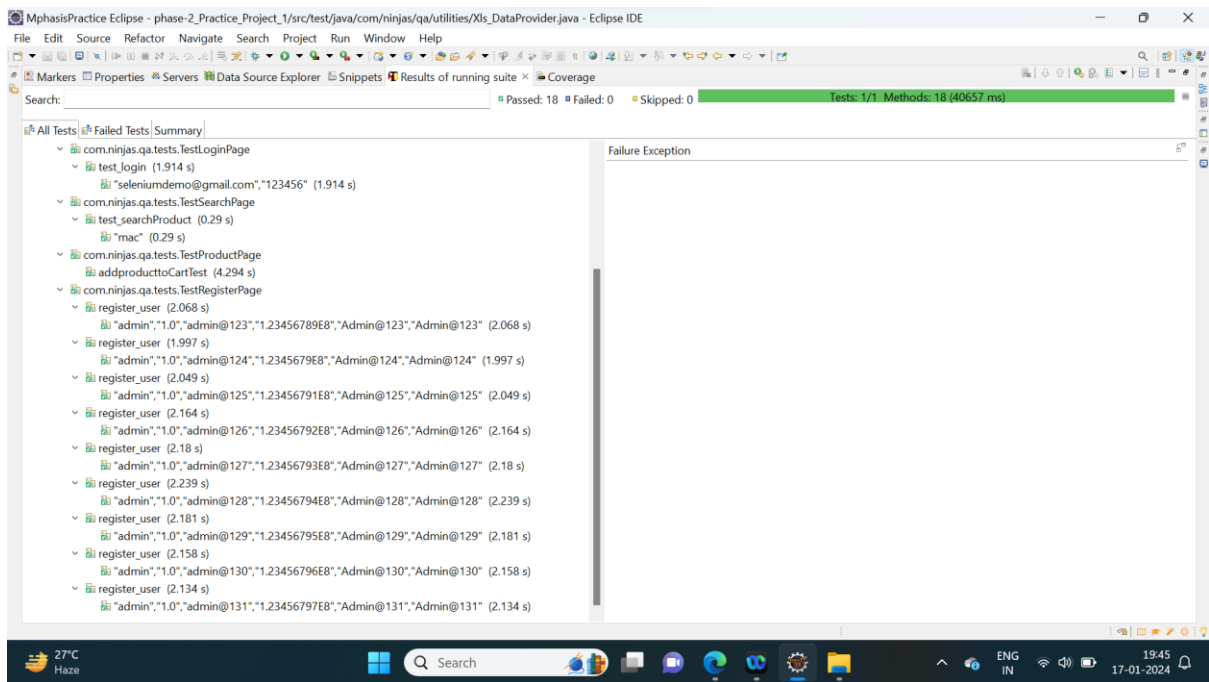
The screenshot shows the Eclipse IDE with the TestNG results view. The test suite 'Project1' has 18 tests, all of which passed. The failure exception view is empty, indicating no failures.

Search: Passed: 18 Failed: 0 Skipped: 0 Tests: 1/1 Methods: 18 (40657 ms)

Project1 (18/0/0/0) (27.769 s)

- Project1 (27.769 s)
 - com.ninjas.qa.tests.TestHomePage
 - test_homepagegetTitle (0.013 s)
 - test_ClickonMyAccount (0.071 s)
 - test_ClickonLogin (0.186 s)
 - test_ClickonRegister (1.384 s)
 - test_ClickonWishlist (0.263 s)
 - test_ClickonShoppingcart (0.184 s)
 - com.ninjas.qa.tests.TestLoginPage
 - test_login (1.914 s)
 - com.ninjas.qa.tests.TestSearchPage
 - test_searchProduct (0.29 s)
 - test_mac (0.29 s)
 - com.ninjas.qa.tests.TestProductPage
 - addproducttoCartTest (4.294 s)
 - com.ninjas.qa.tests.TestRegisterPage
 - register_user (2.068 s)
 - register_user (1.997 s)
 - register_user (2.049 s)
 - register_user (2.164 s)
 - register_user (2.18 s)

Phase-2 Practice Project 1



Step 3:

Report is Generated

