

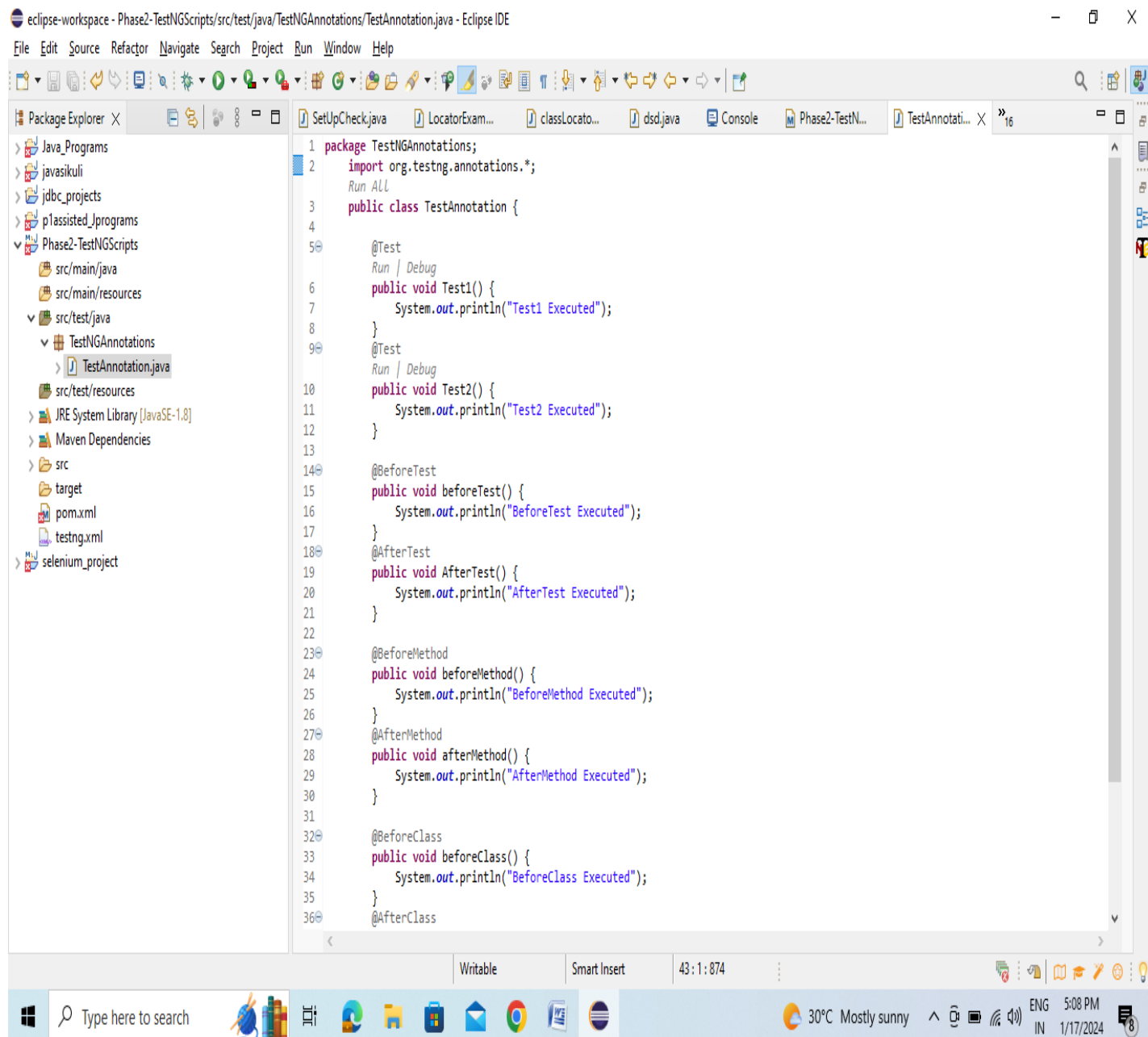
PHASE 2

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ASSISTED PRACTICE PROJECTS

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## 1. Perform All Test Annotations



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left displays the project structure, including the 'TestNGAnnotations' package. The main editor window shows the code for 'TestAnnotation.java'. The code includes package declarations, imports, and several test methods and annotations.

```
1 package TestNGAnnotations;
2 import org.testng.annotations.*;
3
4 public class TestAnnotation {
5
6     @Test
7     public void Test1() {
8         System.out.println("Test1 Executed");
9     }
10
11     @Test
12     public void Test2() {
13         System.out.println("Test2 Executed");
14     }
15
16     @BeforeTest
17     public void beforeTest() {
18         System.out.println("BeforeTest Executed");
19     }
20
21     @AfterTest
22     public void AfterTest() {
23         System.out.println("AfterTest Executed");
24     }
25
26     @BeforeMethod
27     public void beforeMethod() {
28         System.out.println("BeforeMethod Executed");
29     }
30
31     @AfterMethod
32     public void afterMethod() {
33         System.out.println("AfterMethod Executed");
34     }
35
36     @BeforeClass
37     public void beforeClass() {
38         System.out.println("BeforeClass Executed");
39     }
40
41     @AfterClass
42 }
```

The status bar at the bottom indicates the file is 'Writable', 'Smart Insert' is active, and the cursor is at line 43, column 1. The system tray shows the date and time as 5:08 PM on 1/17/2024.

Package Explorer X

- Java\_Programs
- javasikuli
- jdbc\_projects
- plassisted\_programs
- Phase2-TestNGScripts
  - src/main/java
  - src/main/resources
  - src/test/java
    - TestNGAnnotations
      - TestAnnotation.java
    - src/test/resources
  - JRE System Library [JavaSE-1.8]
  - Maven Dependencies
  - src
    - target
    - pom.xml
    - testng.xml
  - selenium\_project

SetUpCheck.java LocatorExam... classLocato...

<terminated> TestAnnotation [TestNG] C:\Users\GVH\p2\pool\plugins\org...

[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 details

BeforeTest Executed

BeforeClass Executed

BeforeMethod Executed

Test1 Executed

AfterMethod Executed

BeforeMethod Executed

Test2 Executed

AfterMethod Executed

AfterClass Executed

AfterTest Executed

PASSED: TestNGAnnotations.TestAnnotation.Test1

PASSED: TestNGAnnotations.TestAnnotation.Test2

=====

Default test

Tests run: 2, Failures: 0, Skips: 0

=====

Default suite

Total tests run: 2, Passes: 2, Failures: 0, Skips: 0

=====

Outline Results of running class TestAnnotation X

Search: Passed: 2 Failed: 0 Skipped: 0 tests: 1/1 Methods: 2 (863 ms)

All Tests Failed Tests Summary

Default suite (2/0/0/0) (0.022 s) Failure Exception

Default test (0.022 s)

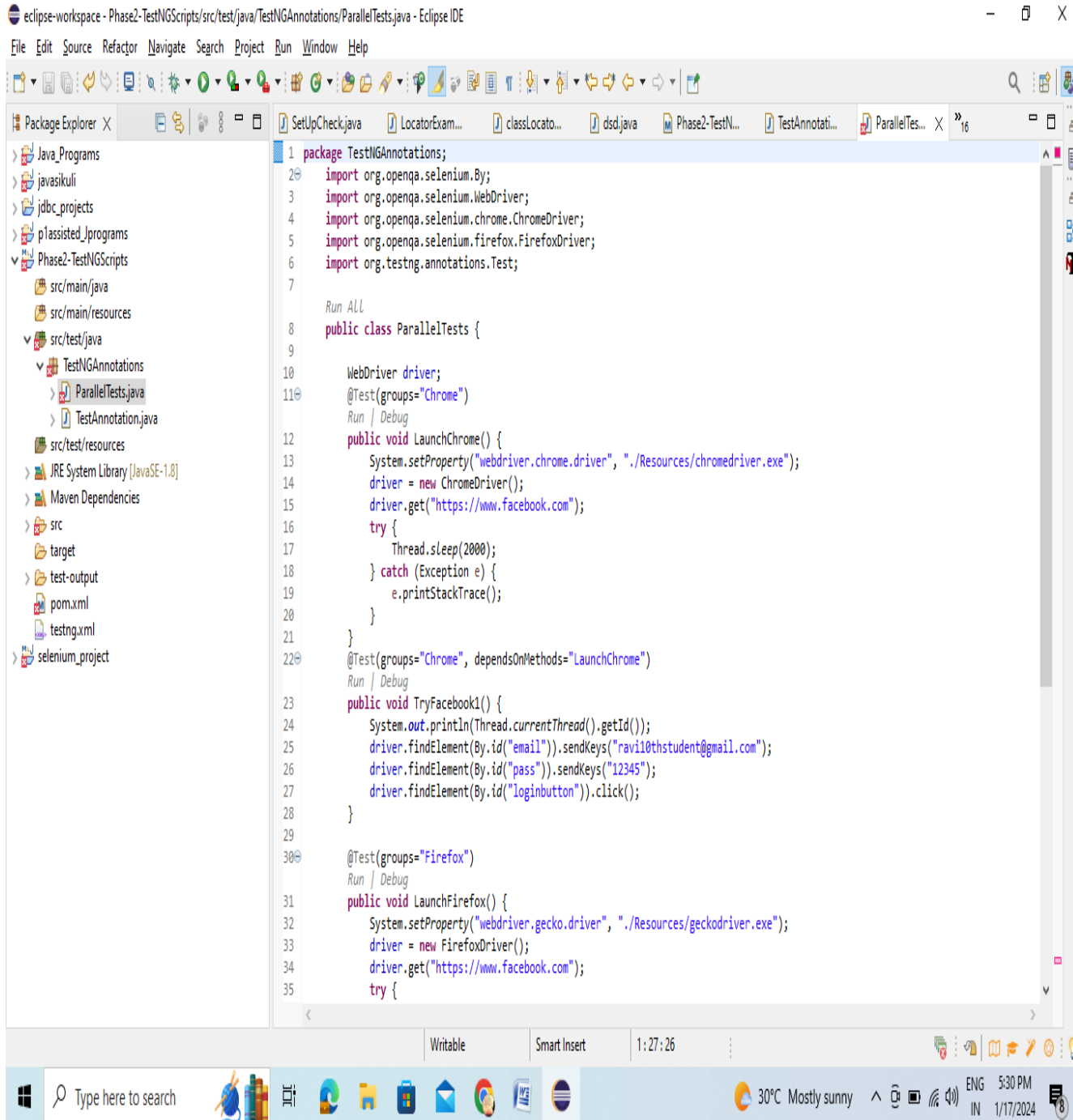
TestNGAnnotations.TestAnnotation

Test1 (0.012 s)

Test2 (0.01 s)

30°C Mostly sunny 5:08 PM 1/17/2024

## 2. Group Test Cases and Parallel Test Execution

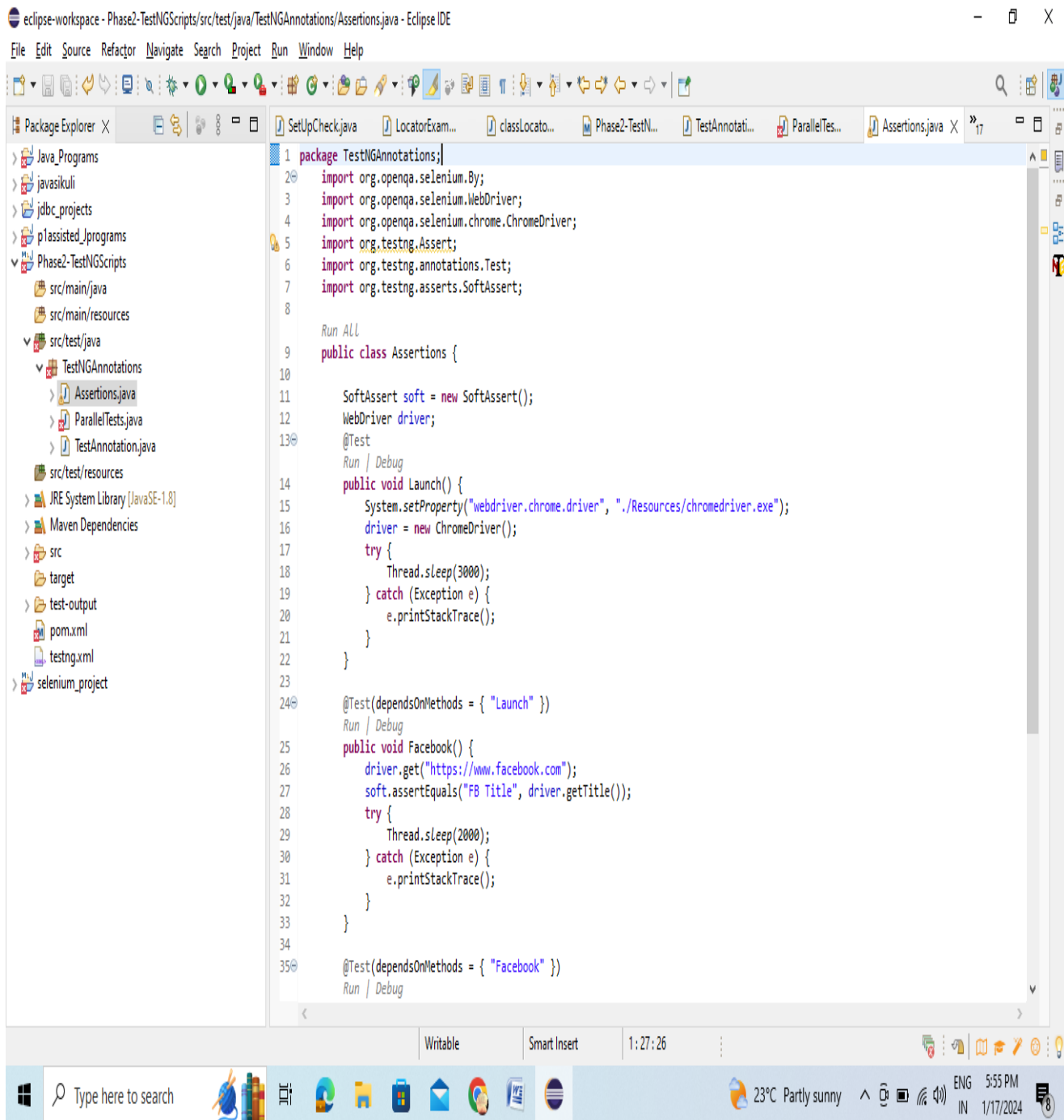


The screenshot displays the Eclipse IDE interface. The Package Explorer on the left shows the project structure, with the file `ParallelTests.java` selected under the `TestNGAnnotations` package. The main editor window shows the following Java code:

```
1 package TestNGAnnotations;
2 import org.openqa.selenium.By;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.chrome.ChromeDriver;
5 import org.openqa.selenium.firefox.FirefoxDriver;
6 import org.testng.annotations.Test;
7
8 Run All
9 public class ParallelTests {
10
11     WebDriver driver;
12     @Test(groups="Chrome")
13     Run / Debug
14     public void LaunchChrome() {
15         System.setProperty("webdriver.chrome.driver", "./Resources/chromedriver.exe");
16         driver = new ChromeDriver();
17         driver.get("https://www.facebook.com");
18         try {
19             Thread.sleep(2000);
20         } catch (Exception e) {
21             e.printStackTrace();
22         }
23     }
24     @Test(groups="Chrome", dependsOnMethods="LaunchChrome")
25     Run / Debug
26     public void TryFacebook1() {
27         System.out.println(Thread.currentThread().getId());
28         driver.findElement(By.id("email")).sendKeys("ravi10thstudent@gmail.com");
29         driver.findElement(By.id("pass")).sendKeys("12345");
30         driver.findElement(By.id("loginbutton")).click();
31     }
32     @Test(groups="Firefox")
33     Run / Debug
34     public void LaunchFirefox() {
35         System.setProperty("webdriver.gecko.driver", "./Resources/geckodriver.exe");
36         driver = new FirefoxDriver();
37         driver.get("https://www.facebook.com");
38         try {
```

The bottom status bar of the IDE shows the following information: Writable, Smart Insert, 1:27:26, 30°C Mostly sunny, ENG, 5:30 PM, 1/17/2024.

### 3. Evaluating Test Cases



The screenshot displays the Eclipse IDE interface. The title bar indicates the workspace is 'eclipse-workspace - Phase2-TestNGScripts/src/test/java/TestNGAnnotations/Assertions.java - Eclipse IDE'. The menu bar includes File, Edit, Source, Refactor, Navigate, Search, Project, Run, Window, and Help. The toolbar contains various icons for file operations and development tools. The Package Explorer on the left shows a project structure with folders like 'Java\_Programs', 'jdbc\_projects', 'p1assisted\_lprograms', and 'Phase2-TestNGScripts'. The 'Phase2-TestNGScripts' folder is expanded, showing subfolders 'src/main/java', 'src/main/resources', 'src/test/java', and 'src/test/resources'. The 'TestNGAnnotations' folder is also expanded, showing 'Assertions.java', 'ParallelTests.java', and 'TestAnnotation.java'. The main editor window displays the code for 'Assertions.java'. The code includes package declarations, imports for Selenium and TestNG, and two test methods: 'Launch()' and 'Facebook()'. The 'Launch()' method sets the WebDriver to Chrome and sleeps for 3000ms. The 'Facebook()' method navigates to 'https://www.facebook.com', asserts the title is 'FB Title', and sleeps for 2000ms. The status bar at the bottom shows 'Writable', 'Smart Insert', and the time '1:27:26'. The Windows taskbar at the very bottom shows the search bar, taskbar icons, and system tray information including '23°C Partly sunny', 'ENG IN', and the date '1/17/2024'.

```
1 package TestNGAnnotations;
2 import org.openqa.selenium.By;
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.chrome.ChromeDriver;
5 import org.testng.Assert;
6 import org.testng.annotations.Test;
7 import org.testng.asserts.SoftAssert;
8
9 Run ALL
10 public class Assertions {
11     SoftAssert soft = new SoftAssert();
12     WebDriver driver;
13     @Test
14     Run | Debug
15     public void Launch() {
16         System.setProperty("webdriver.chrome.driver", "./Resources/chromedriver.exe");
17         driver = new ChromeDriver();
18         try {
19             Thread.sleep(3000);
20         } catch (Exception e) {
21             e.printStackTrace();
22         }
23     }
24     @Test(dependsOnMethods = { "Launch" })
25     Run | Debug
26     public void Facebook() {
27         driver.get("https://www.facebook.com");
28         soft.assertEquals("FB Title", driver.getTitle());
29         try {
30             Thread.sleep(2000);
31         } catch (Exception e) {
32             e.printStackTrace();
33         }
34     }
35     @Test(dependsOnMethods = { "Facebook" })
36     Run | Debug
```

## 4. Reports Using Extent Reports

The screenshot displays the Eclipse IDE interface with the following components:

- Package Explorer:** Shows the project structure, including `src/test/java/TestNGAnnotations` and `src/test/resources`. The `ExtentReportsClass.java` file is selected.
- Code Editor:** Contains the following Java code:

```
1 package TestNGAnnotations;
2
3
4 import java.io.File;
5 import org.testng.Assert;
6 import org.testng.ITestResult;
7 import org.testng.SkipException;
8 import org.testng.annotations.AfterMethod;
9 import org.testng.annotations.AfterTest;
10 import org.testng.annotations.BeforeTest;
11 import org.testng.annotations.Test;
12
13 import com.relevantcodes.extentreports.ExtentReports;
14 import com.relevantcodes.extentreports.ExtentTest;
15 import com.relevantcodes.extentreports.LogStatus;
16
17 Run All
18 public class ExtentReportsClass{
19     Extentreports extent;
20     ExtentTest logger;
21     @BeforeTest
22     public void startReport(){
23         //ExtentReports(String filePath,Boolean replaceExisting)
24         //filepath - path of the file, in .htm or .html format - path where your report needs to generate.
25         //replaceExisting - Setting to overwrite (TRUE) the existing file or append to it
26         //True (default): the file will be replaced with brand new markup, and all existing data will be lost. Use this option to create
27         //False: existing data will remain, new tests will be appended to the existing report. If the supplied path does not exist, a new
28         extent = new ExtentReports(System.getProperty("user.dir") + "/test-output/STMExtentReport.html", true);
29         //extent.addSystemInfo("Environment", "Environment Name")
30         extent
31             .addSystemInfo("Host Name", "SoftwareTesting")
32             .addSystemInfo("Environment", "Automation Testing")
33             .addSystemInfo("User Name", "TestEngineer");
34         //loading the external xml file (i.e., extent-config.xml) that was placed under the base directory
35         //You could find the xml file below. Create xml file in your project and copy paste the code mentioned below
36         extent.loadConfig(new File(System.getProperty("user.dir")+"\\extent-config.xml"));
37     }
38     @Test
39     Run | Debug
40     public void passTest(){
```
- Bottom Bar:** Shows the status "Extentreports cannot be resolved to a type", the "Writable" and "Smart Insert" modes, and the time "17:12:53".
- Taskbar:** Displays the Windows taskbar with the search bar, application icons, and system tray showing the date and time as "1/17/2024 6:04 PM".

## 5. Exporting Reports in Excel .

eclipse-workspace - Phase2-TestNGScripts/src/test/java/TestNGAnnotations/TEST\_01.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

Package Explorer X

- Java\_Programs
- javasikuli
- jdbc\_projects
- plassisted\_programs
- Phase2-TestNGScripts
  - src/main/java
  - src/main/resources
  - src/test/java
    - TestNGAnnotations
      - Assertions.java
      - ExtendsReportsClass.java
      - ParallelTests.java
      - TEST\_01.java
      - TestAnnotation.java
    - src/test/resources
  - JRE System Library [JavaSE-1.8]
  - Maven Dependencies
  - src
  - target
  - test-output
  - pom.xml
  - testng.xml
  - selenium\_project

```
1 package TestNGAnnotations;
2 {
3
4 import org.openqa.selenium.By;
5 import org.openqa.selenium.WebDriver;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.testng.annotations.AfterMethod;
8 import org.testng.annotations.BeforeMethod;
9 import org.testng.annotations.Test;
10
11 import base.Baseclass;
12
13 Run ALL
14 public class TEST_01 extends Baseclass {
15
16 @Test
17 Run | Debug
18 public void t_001()
19 {
20 driver.findElement(By.xpath("//*[@contains(text(),'Categories')][1]")).click();
21 driver.findElement(By.xpath("//*[@contains(text(),'Central')]").click();
22 System.out.println("Test_01 executed successfully");
23 }
24 }
25
26
27
28 • Write the test script in the Test_02 class.
29
30 package Testcases;
31
32 import org.openqa.selenium.By;
33 import org.testng.annotations.Test;
34
35 import base.Baseclass;
36
37 Run ALL
```

Writable Smart Insert 98 : 25 : 2239

27°C Partly cloudy 6:09 PM 1/17/2024

**6.**