









Cucumber Lesson End Project

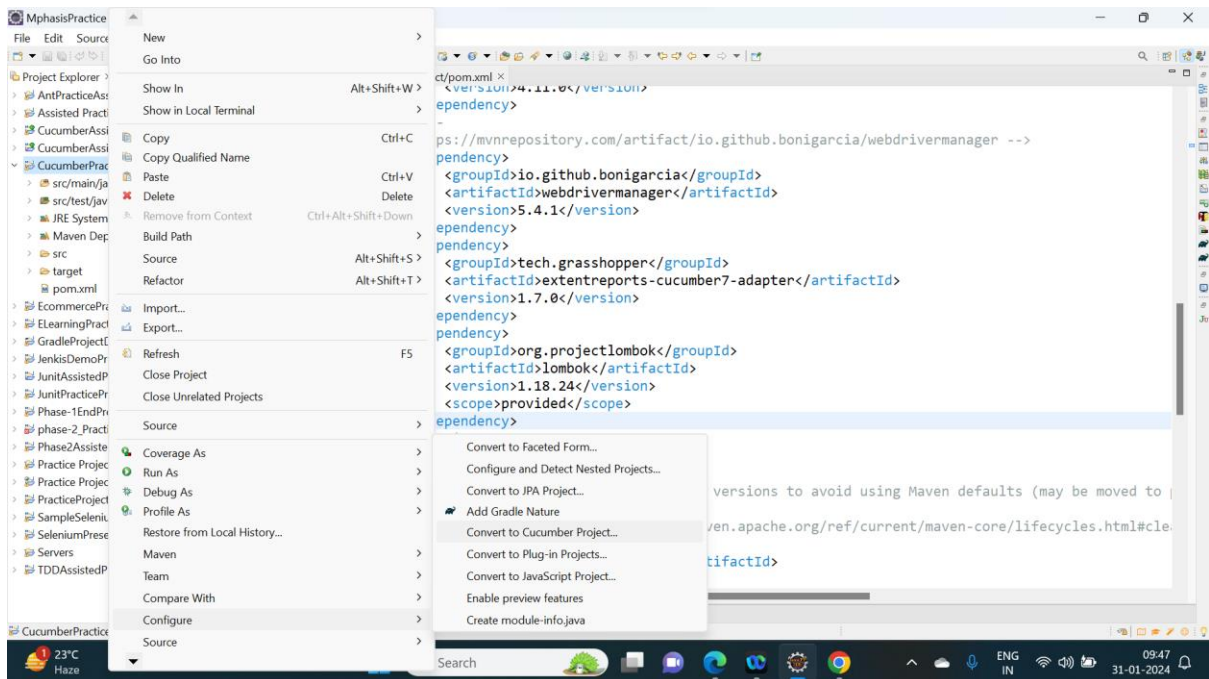
Step1:

Create a Maven Project CucumberEndProject and add dependencies.

- ✓  CucumberPracticeProject
 - >  src/main/java
 - >  src/test/java
 - >  JRE System Library [JavaSE-1.7]
 - >  Maven Dependencies
 - >  src
 - >  target
 -  pom.xml

Step 2:

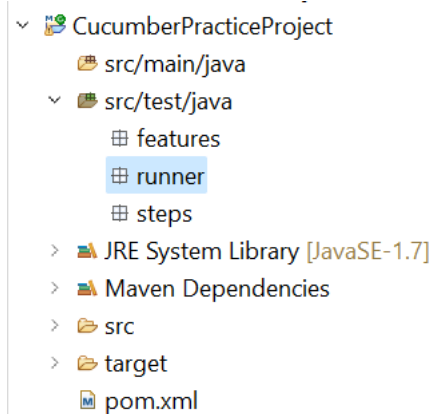
Convert the maven project to cucumber project.



Cucumber Lesson End Project

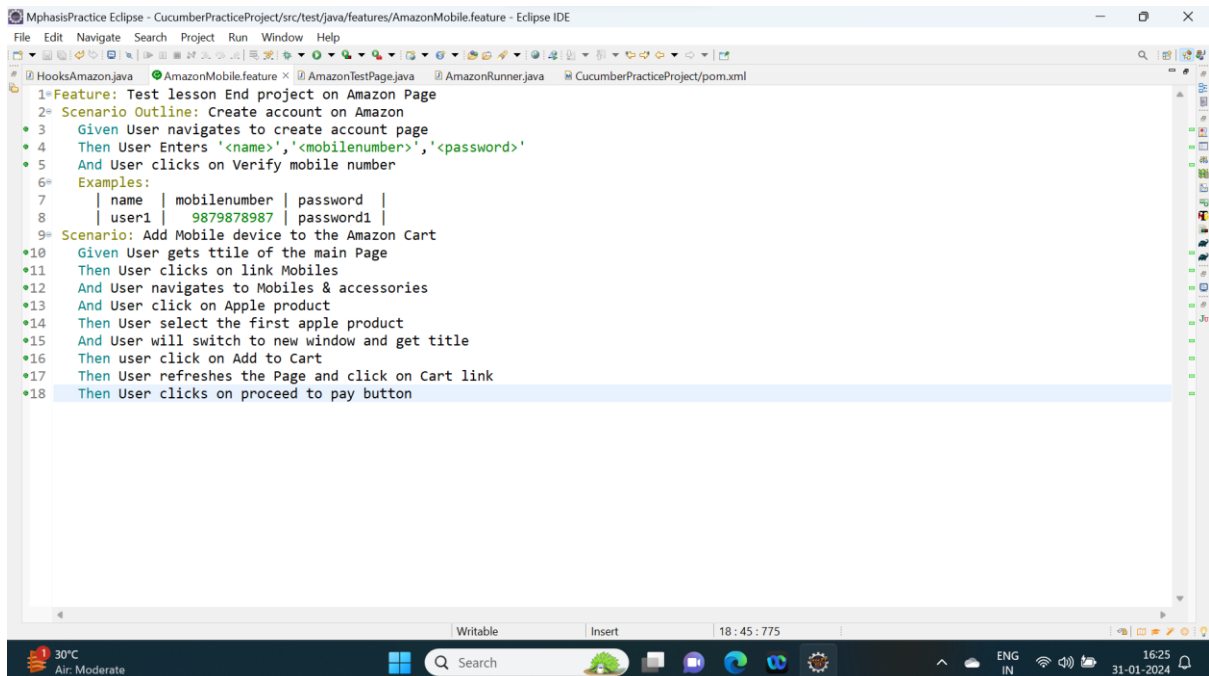
Step 3:

Create three packages features, steps, runner in the project.



Step 4:

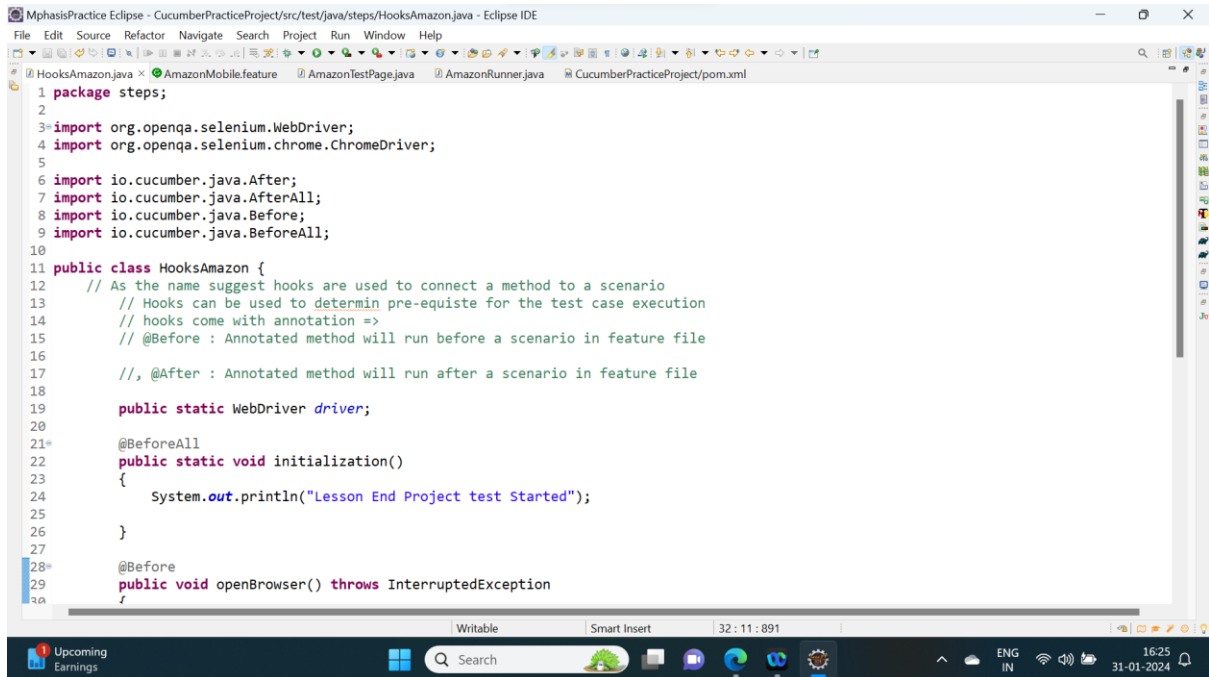
Create AmazonMobile.feature file and add gherkin statements.



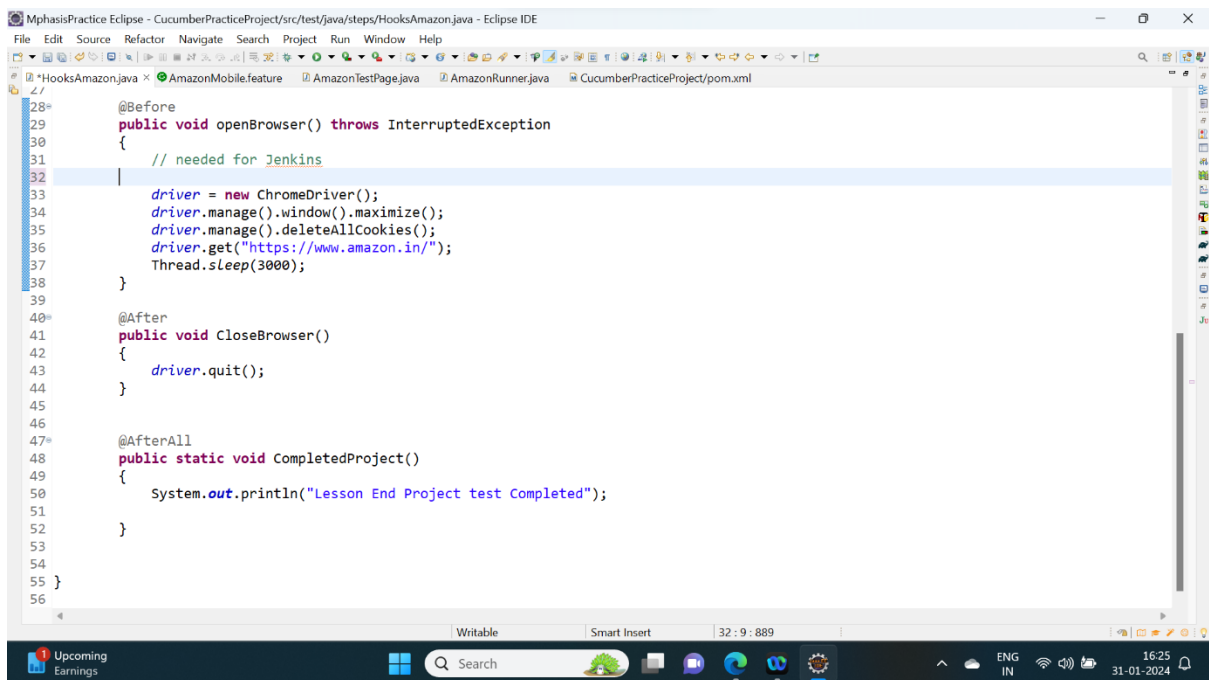
Cucumber Lesson End Project

Step 5:

Create HookAmazon.java class and add hooks required for test.



```
1 package steps;
2
3 import org.openqa.selenium.WebDriver;
4 import org.openqa.selenium.chrome.ChromeDriver;
5
6 import io.cucumber.java.After;
7 import io.cucumber.java.AfterAll;
8 import io.cucumber.java.Before;
9 import io.cucumber.java.BeforeAll;
10
11 public class HooksAmazon {
12     // As the name suggest hooks are used to connect a method to a scenario
13     // Hooks can be used to determin pre-equisite for the test case execution
14     // hooks come with annotation =>
15     // @Before : Annotated method will run before a scenario in feature file
16
17     //, @After : Annotated method will run after a scenario in feature file
18
19     public static WebDriver driver;
20
21     @BeforeAll
22     public static void initialization()
23     {
24         System.out.println("Lesson End Project test Started");
25     }
26
27
28     @Before
29     public void openBrowser() throws InterruptedException
30     {
```



```
28 //
29     @Before
30     public void openBrowser() throws InterruptedException
31     {
32         // needed for Jenkins
33         driver = new ChromeDriver();
34         driver.manage().window().maximize();
35         driver.manage().deleteAllCookies();
36         driver.get("https://www.amazon.in/");
37         Thread.sleep(3000);
38     }
39
40     @After
41     public void CloseBrowser()
42     {
43         driver.quit();
44     }
45
46
47     @AfterAll
48     public static void CompletedProject()
49     {
50         System.out.println("Lesson End Project test Completed");
51     }
52
53
54 }
55
56 }
```

Cucumber Lesson End Project

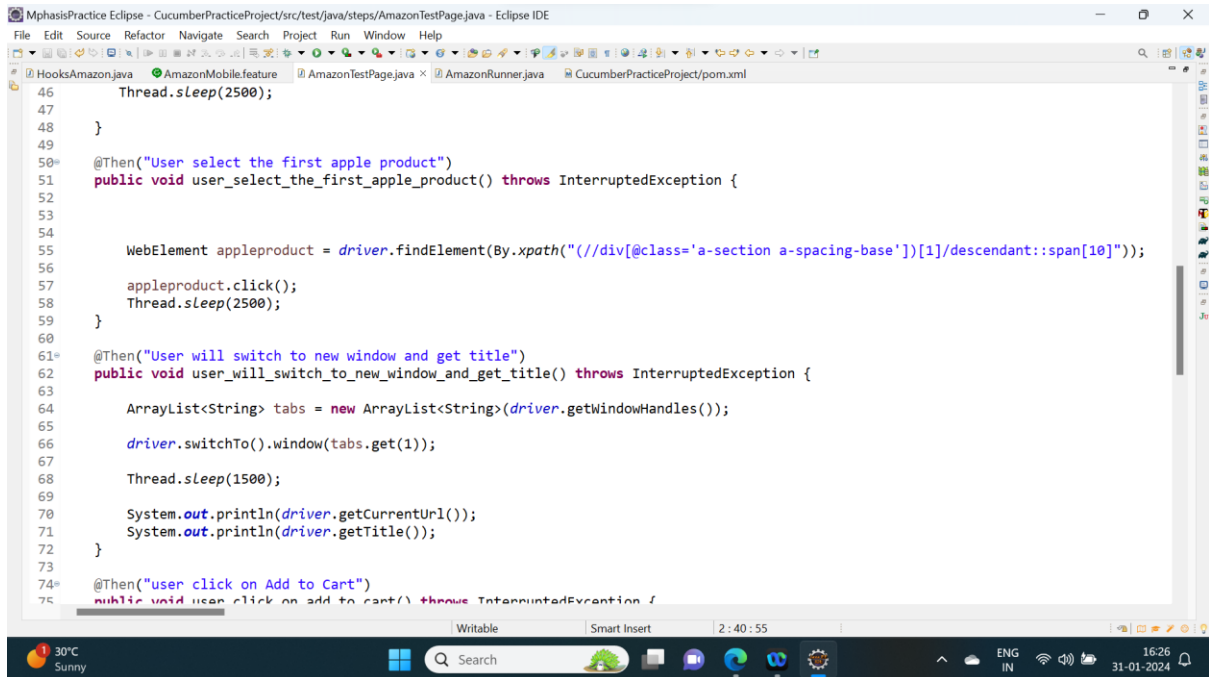
Step 6:

Create AmazonTestPage.java class and write the test code required to test the feature file.

```
1 package steps;
2 import static steps.HooksAmazon.driver;
3 import java.util.ArrayList;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.WebElement;
7 import org.openqa.selenium.interactions.Actions;
8
9 import io.cucumber.java.en.And;
10 import io.cucumber.java.en.Given;
11 import io.cucumber.java.en.Then;
12
13 public class AmazonTestPage {
14     @Given("User gets title of the main Page")
15     public void user_gets_title_of_the_main_page() {
16
17         System.out.println(driver.getTitle());
18     }
19
20
21     @Then("User clicks on link Mobiles")
22     public void user_clicks_on_link_mobiles() throws InterruptedException {
23
24         WebElement mobiles = driver.findElement(By.xpath("//a[normalize-space()='Mobiles']"));
25
26         mobiles.click();
27
28         Thread.sleep(1500);
29     }
30 }
```

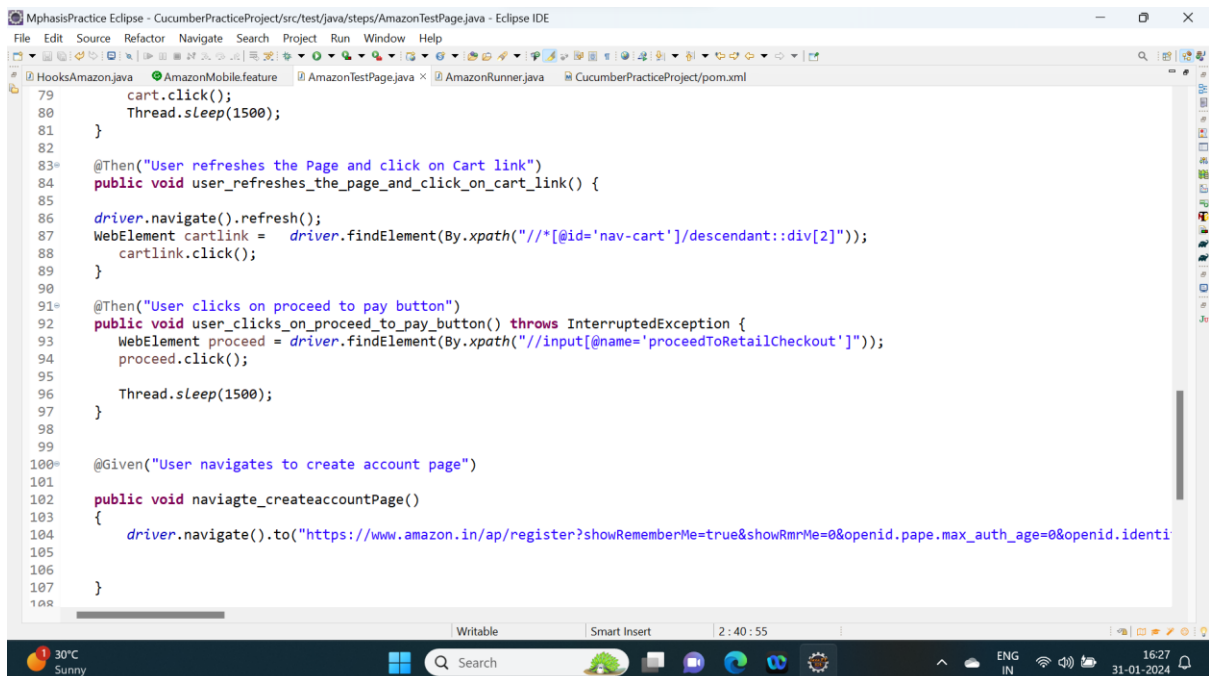
```
79     cart.click();
80     Thread.sleep(1500);
81 }
82
83 @Then("User refreshes the Page and click on Cart link")
84 public void user_refreshes_the_page_and_click_on_cart_link() {
85
86     driver.navigate().refresh();
87     WebElement cartlink = driver.findElement(By.xpath("//*[id='nav-cart']/descendant::div[2]"));
88     cartlink.click();
89 }
90
91 @Then("User clicks on proceed to pay button")
92 public void user_clicks_on_proceed_to_pay_button() throws InterruptedException {
93     WebElement proceed = driver.findElement(By.xpath("//input[@name='proceedToRetailCheckout']"));
94     proceed.click();
95
96     Thread.sleep(1500);
97 }
98
99
100 @Given("User navigates to create account page")
101 public void naviagte_createaccountPage()
102 {
103     driver.navigate().to("https://www.amazon.in/ap/register?showRememberMe=true&showRmrMe=0&openid.pape.max_auth_age=0&openid.identi");
104 }
105
106
107
108 }
```

Cucumber Lesson End Project



This screenshot shows the Eclipse IDE with the file `AmazonTestPage.java` open. The code is part of a Cucumber project and includes several step definitions. The visible code includes a `Thread.sleep(2500);` statement, a `@Then` step for selecting an apple product, and another `@Then` step for switching windows and getting the title. The IDE interface shows the project structure on the left and the bottom status bar indicates the system is sunny with a temperature of 30°C.

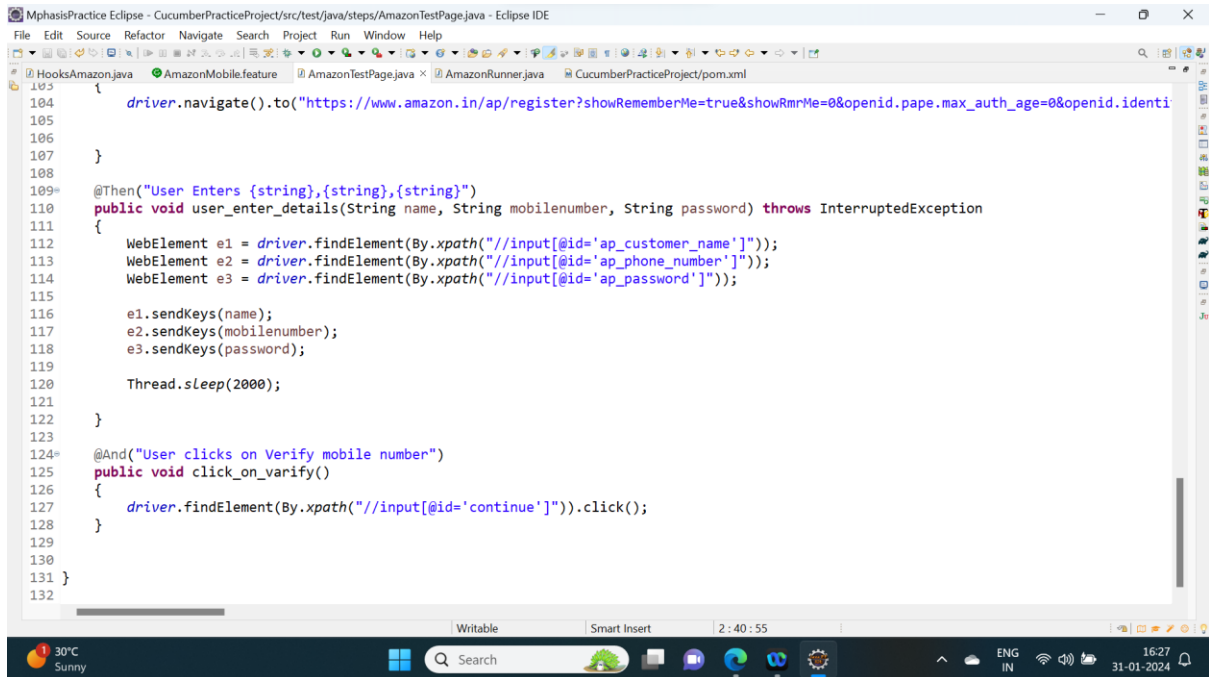
```
46      Thread.sleep(2500);
47  }
48
49
50  @Then("User select the first apple product")
51  public void user_select_the_first_apple_product() throws InterruptedException {
52
53
54
55      WebElement appleproduct = driver.findElement(By.xpath("//div[@class='a-section a-spacing-base']][1]/descendant::span[10]"));
56
57      appleproduct.click();
58      Thread.sleep(2500);
59  }
60
61  @Then("User will switch to new window and get title")
62  public void user_will_switch_to_new_window_and_get_title() throws InterruptedException {
63
64      ArrayList<String> tabs = new ArrayList<String>(driver.getWindowHandles());
65
66      driver.switchTo().window(tabs.get(1));
67
68      Thread.sleep(1500);
69
70      System.out.println(driver.getCurrentUrl());
71      System.out.println(driver.getTitle());
72  }
73
74  @Then("user click on Add to Cart")
75  public void user_click_on_add_to_cart() throws InterruptedException {
```



This screenshot shows the Eclipse IDE with the file `AmazonTestPage.java` open, displaying the continuation of the Cucumber step definitions. The code includes a `cart.click();` statement followed by a `Thread.sleep(1500);`, a `@Then` step for refreshing the page and clicking the cart link, and another `@Then` step for clicking the 'proceed to pay' button. It also includes a `@Given` step for navigating to the account creation page. The IDE interface shows the project structure on the left and the bottom status bar indicates the system is sunny with a temperature of 30°C.

```
79      cart.click();
80      Thread.sleep(1500);
81  }
82
83  @Then("User refreshes the Page and click on Cart link")
84  public void user_refreshes_the_page_and_click_on_cart_link() {
85
86      driver.navigate().refresh();
87      WebElement cartlink = driver.findElement(By.xpath("//div[@id='nav-cart']/descendant::div[2]"));
88      cartlink.click();
89  }
90
91  @Then("User clicks on proceed to pay button")
92  public void user_clicks_on_proceed_to_pay_button() throws InterruptedException {
93      WebElement proceed = driver.findElement(By.xpath("//input[@name='proceedToRetailCheckout']"));
94      proceed.click();
95
96      Thread.sleep(1500);
97  }
98
99
100  @Given("User navigates to create account page")
101
102  public void naviagte_createaccountPage()
103  {
104      driver.navigate().to("https://www.amazon.in/ap/register?showRememberMe=true&showRmrMe=0&openid.pape.max_auth_age=0&openid.identi
105
106
107  }
108
```

Cucumber Lesson End Project

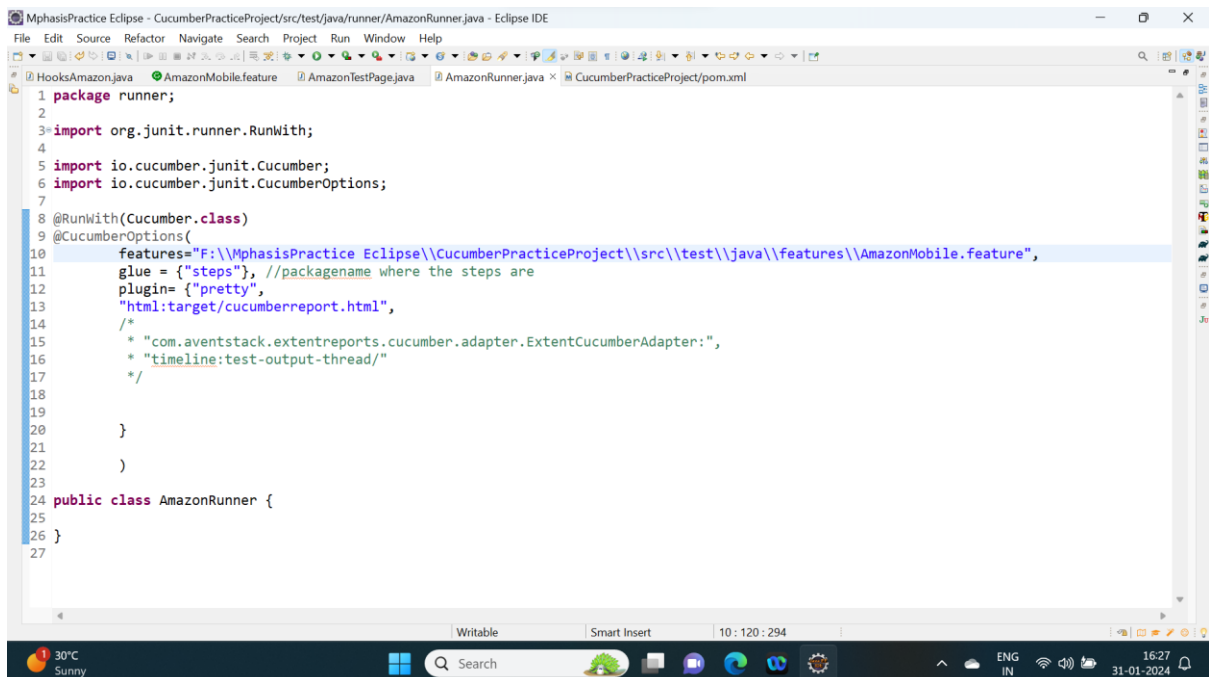


The screenshot shows the Eclipse IDE with the file `AmazonTestPage.java` open. The code is part of a Cucumber test suite. It includes a `driver.navigate()` call to a specific Amazon URL. A `@Then` annotation is followed by a `public void user_enter_details` method that takes `String` parameters for name, mobilenummer, and password. Inside this method, three `WebElement` objects are found using `driver.findElement` with XPath expressions for the name, phone number, and password input fields. These elements are then used to `sendKeys` the respective values. A `Thread.sleep(2000)` is used for a delay. Finally, a `@And` annotation is followed by a `public void click_on_varify` method that clicks on a 'continue' button.

```
103 {
104     driver.navigate().to("https://www.amazon.in/ap/register?showRememberMe=true&showRmrMe=0&openid.pape.max_auth_age=0&openid.identi
105
106
107 }
108
109 @Then("User Enters {string},{string},{string}")
110 public void user_enter_details(String name, String mobilenummer, String password) throws InterruptedException
111 {
112     WebElement e1 = driver.findElement(By.xpath("//input[@id='ap_customer_name']"));
113     WebElement e2 = driver.findElement(By.xpath("//input[@id='ap_phone_number']"));
114     WebElement e3 = driver.findElement(By.xpath("//input[@id='ap_password']"));
115
116     e1.sendKeys(name);
117     e2.sendKeys(mobilenummer);
118     e3.sendKeys(password);
119
120     Thread.sleep(2000);
121
122 }
123
124 @And("User clicks on Verify mobile number")
125 public void click_on_varify()
126 {
127     driver.findElement(By.xpath("//input[@id='continue']")).click();
128 }
129
130
131 }
132
```

Step 7:

Create AmazonRunner.java class and write the below code.



The screenshot shows the Eclipse IDE with the file `AmazonRunner.java` open. The code defines a package `runner` and imports `org.junit.runner.RunWith`, `io.cucumber.junit.Cucumber`, and `io.cucumber.junit.CucumberOptions`. A `@RunWith(Cucumber.class)` annotation is present, followed by a `@CucumberOptions` annotation. The `features` attribute points to the path of the feature files. The `glue` attribute is set to `"steps"`, and the `plugin` attribute is set to `"pretty"` and `"html:target/cucumberreport.html"`. The `com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter` is also specified. The `public class AmazonRunner` is defined with an empty body.

```
1 package runner;
2
3 import org.junit.runner.RunWith;
4
5 import io.cucumber.junit.Cucumber;
6 import io.cucumber.junit.CucumberOptions;
7
8 @RunWith(Cucumber.class)
9 @CucumberOptions(
10     features="F:\\MphasisPractice Eclipse\\CucumberPracticeProject\\src\\test\\java\\features\\AmazonMobile.feature",
11     glue = {"steps"}, //packagename where the steps are
12     plugin= {"pretty",
13             "html:target/cucumberreport.html",
14             /*
15              * "com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:",
16              * "timeline:test-output-thread/"
17              */
18         }
19     )
20 }
21
22
23
24 public class AmazonRunner {
25
26 }
27
```

Cucumber Lesson End Project

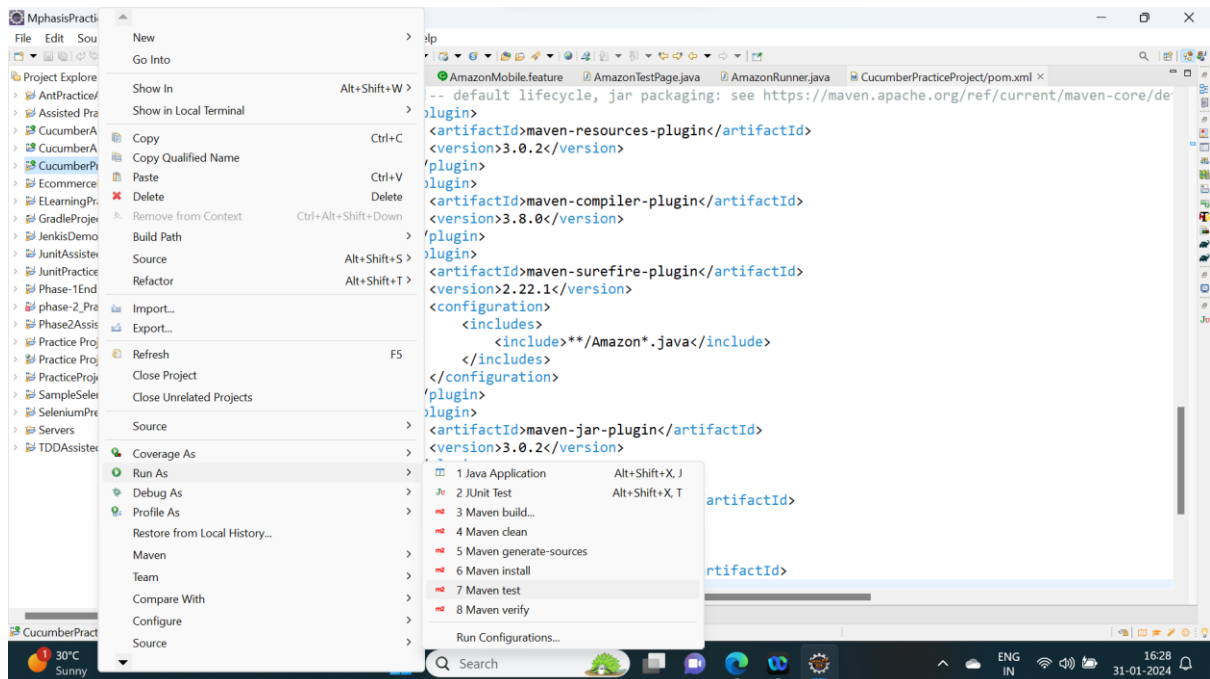
Step 8:

Configure the maven plugin to run the project.

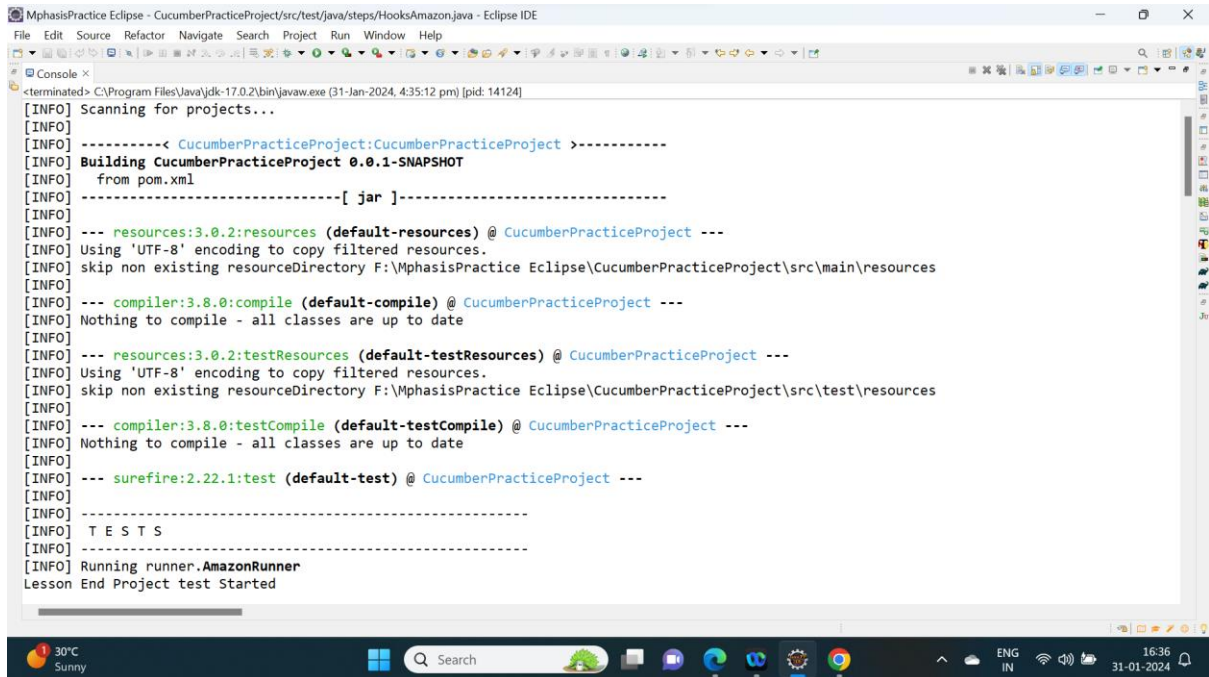
```
<plugin>
  <artifactId>maven-surefire-plugin</artifactId>
  <version>2.22.1</version>
  <configuration>
    <includes>
      <include>**/Amazon*.java</include>
    </includes>
  </configuration>
</plugin>
```

Step 9:

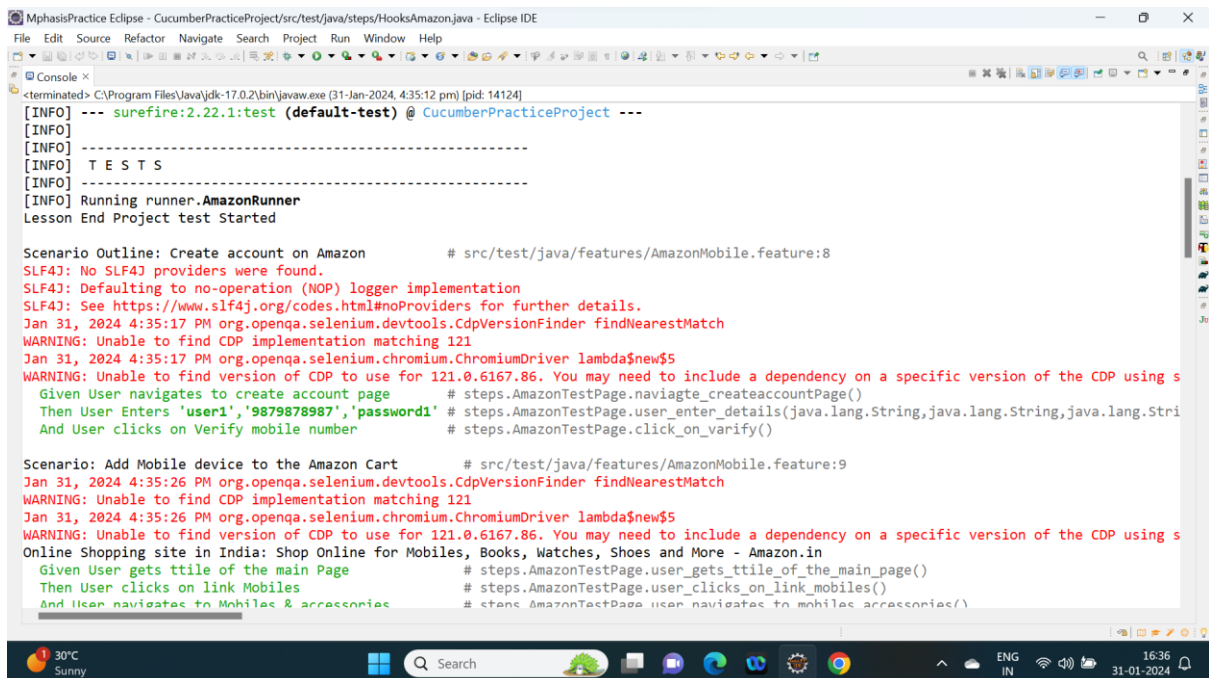
Run the project.



Cucumber Lesson End Project



```
<terminated> C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (31-Jan-2024, 4:35:12 pm) [pid: 14124]
[INFO] Scanning for projects...
[INFO]
[INFO] -----< CucumbrPracticeProject:CucumbrPracticeProject >-----
[INFO] Building CucumbrPracticeProject 0.0.1-SNAPSHOT
[INFO] from pom.xml
[INFO] -----[ jar ]-----
[INFO]
[INFO] --- resources:3.0.2:resources (default-resources) @ CucumbrPracticeProject ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\MphasisPractice Eclipse\CucumbrPracticeProject\src\main\resources
[INFO]
[INFO] --- compiler:3.8.0:compile (default-compile) @ CucumbrPracticeProject ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- resources:3.0.2:testResources (default-testResources) @ CucumbrPracticeProject ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] skip non existing resourceDirectory F:\MphasisPractice Eclipse\CucumbrPracticeProject\src\test\resources
[INFO]
[INFO] --- compiler:3.8.0:testCompile (default-testCompile) @ CucumbrPracticeProject ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- surefire:2.22.1:test (default-test) @ CucumbrPracticeProject ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running runner.AmazonRunner
Lesson End Project test Started
```



```
<terminated> C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe (31-Jan-2024, 4:35:12 pm) [pid: 14124]
[INFO] --- surefire:2.22.1:test (default-test) @ CucumbrPracticeProject ---
[INFO]
[INFO] -----
[INFO] T E S T S
[INFO] -----
[INFO] Running runner.AmazonRunner
Lesson End Project test Started

Scenario Outline: Create account on Amazon # src/test/java/features/AmazonMobile.feature:8
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 31, 2024 4:35:17 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Jan 31, 2024 4:35:17 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.86. You may need to include a dependency on a specific version of the CDP using s
Given User navigates to create account page # steps.AmazonTestPage.navigatge_createaccountPage()
Then User Enters 'user1', '9879878987', 'password1' # steps.AmazonTestPage.user_enter_details(java.lang.String,java.lang.String,java.lang.Stri
And User clicks on Verify mobile number # steps.AmazonTestPage.click_on_varify()

Scenario: Add Mobile device to the Amazon Cart # src/test/java/features/AmazonMobile.feature:9
Jan 31, 2024 4:35:26 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Jan 31, 2024 4:35:26 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.86. You may need to include a dependency on a specific version of the CDP using s
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Given User gets title of the main Page # steps.AmazonTestPage.user_gets_title_of_the_main_page()
Then User clicks on link Mobiles # steps.AmazonTestPage.user_clicks_on_link_mobiles()
And User navigates to Mobiles & accessories # steps.AmazonTestPage.user_navigates_to_mobiles_accessories()
```

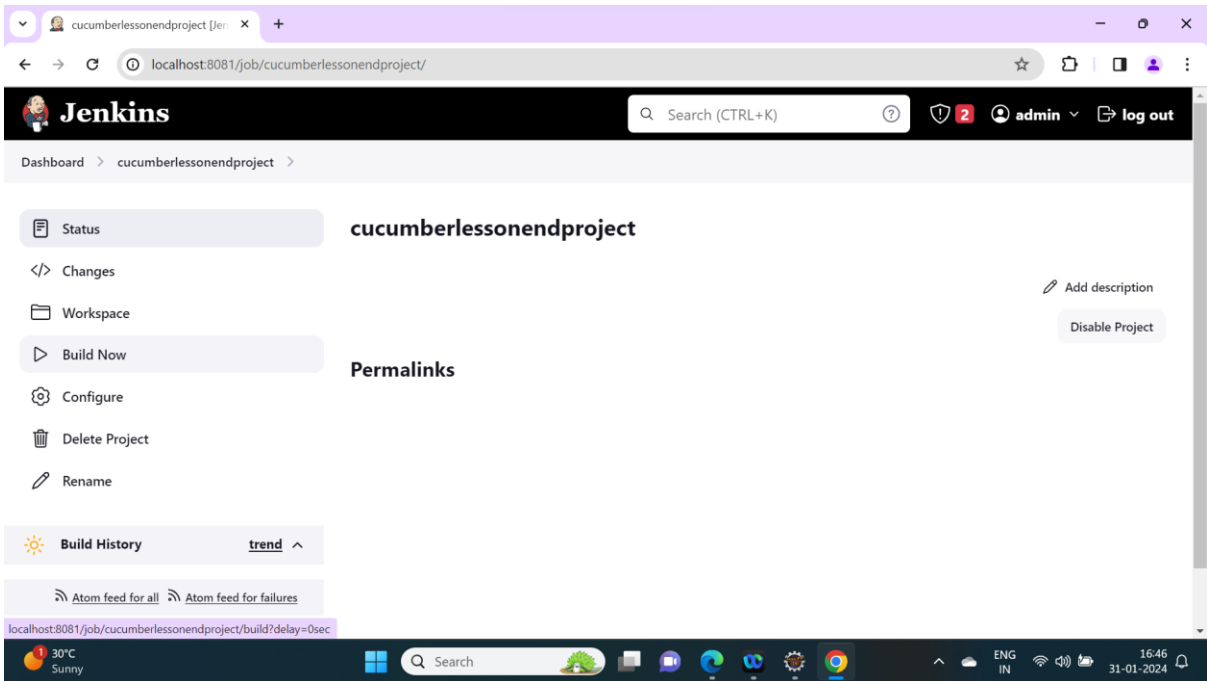
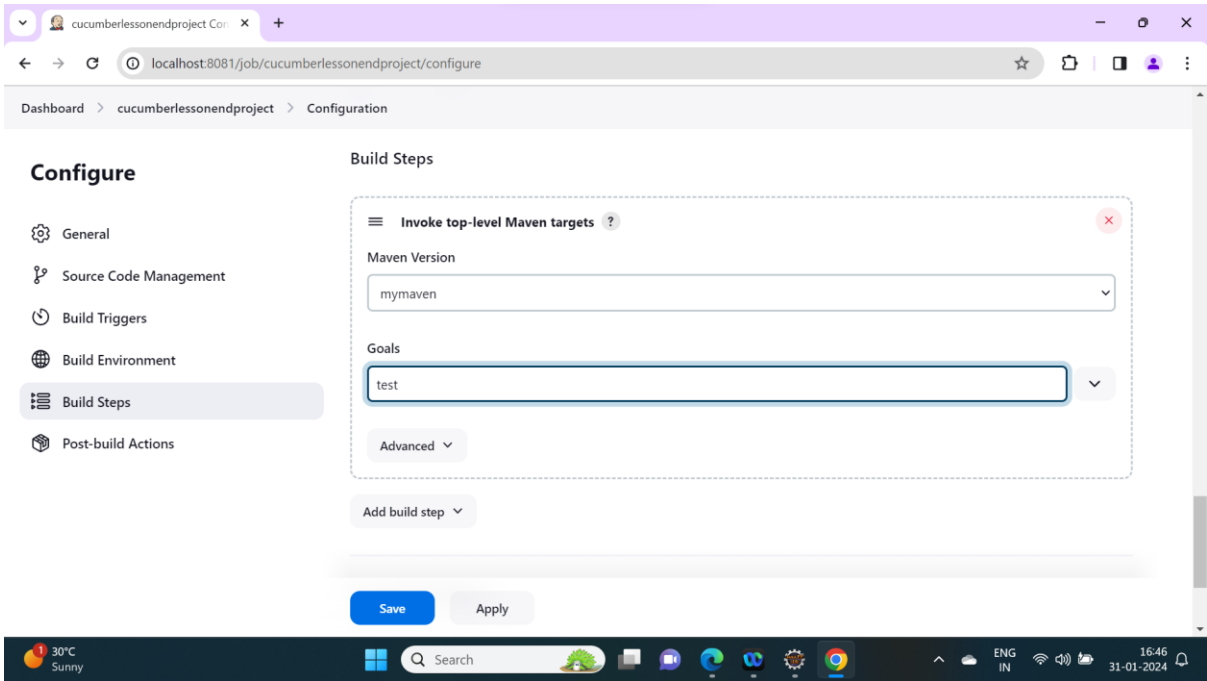


```
MphasiPractice Eclipse - CucumberProject/src/java/steps/HooksAmazon.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
<terminated> C:\Program Files\Java\jdk-17.0.2\bin\javaw.exe [31-Jan-2024, 4:35:12 pm] [pid: 14124]
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Jan 31, 2024 4:35:17 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Jan 31, 2024 4:35:17 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.86. You may need to include a dependency on a specific version of the CDP using s
Given User navigates to create account page # steps.AmazonTestPage.navigate_createaccountPage()
Then User Enters 'user1','9879878987','password1' # steps.AmazonTestPage.user_enter_details(java.lang.String,java.lang.String,java.lang.Stri
And User clicks on Verify mobile number # steps.AmazonTestPage.click_on_varify()

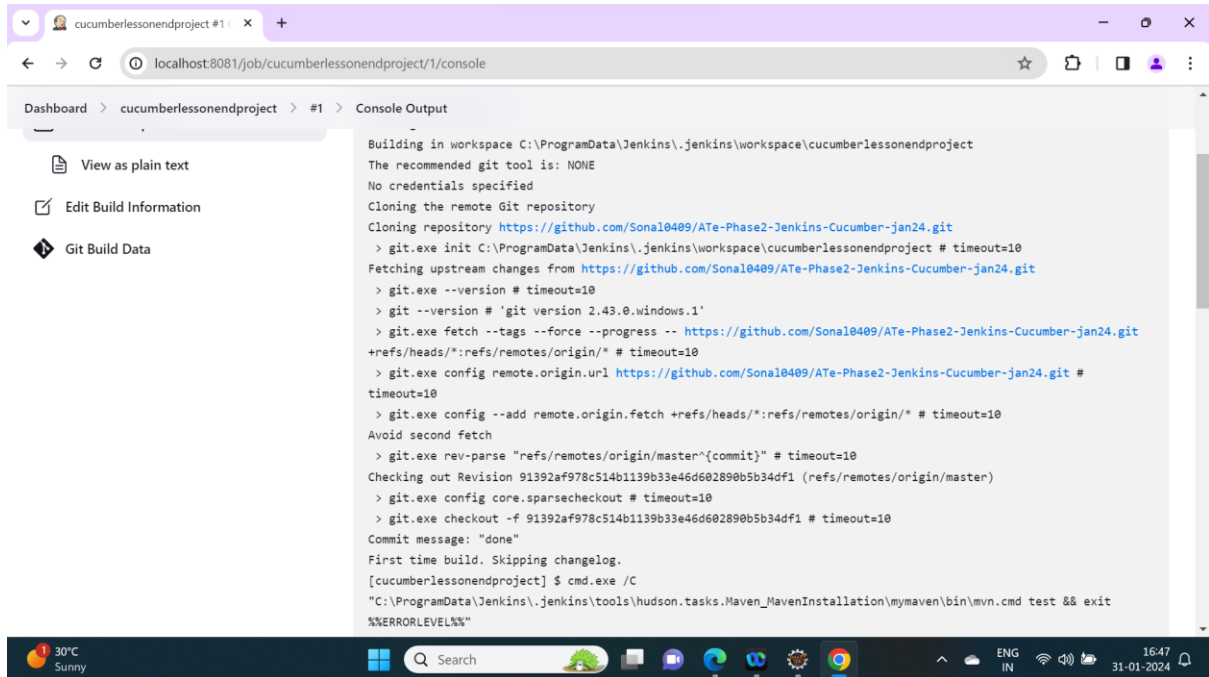
Scenario: Add Mobile device to the Amazon Cart # src/test/java/features/AmazonMobile.feature:9
Jan 31, 2024 4:35:26 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find CDP implementation matching 121
Jan 31, 2024 4:35:26 PM org.openqa.selenium.chromium.ChromiumDriver lambda$new$5
WARNING: Unable to find version of CDP to use for 121.0.6167.86. You may need to include a dependency on a specific version of the CDP using s
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Given User gets title of the main Page # steps.AmazonTestPage.user_gets_title_of_the_main_page()
Then User clicks on link Mobiles # steps.AmazonTestPage.user_clicks_on_link_mobiles()
And User navigates to Mobiles & accessories # steps.AmazonTestPage.user_navigates_to_mobiles_accessories()
And User click on Apple product # steps.AmazonTestPage.user_click_on_apple_product()
Then User select the first apple product # steps.AmazonTestPage.user_select_the_first_apple_product()
[00AAC5C393DF907AC4E4FFC0BC5F49E, A21DDB17245A3712FA118D4FDAF19713]
https://www.amazon.in/Apple-USB-C-Adapter-iPhone-AirPods/dp/B08LSWFCV/ref=sr_1_1?qid=1706699136&refinements=p_89%3AAApple%2Cp_6%3AAI4CZOWI0VEH
Apple 20W USB-C Power Adapter (for iPhone, iPad & AirPods) : Amazon.in: Electronics
And User will switch to new window and get title # steps.AmazonTestPage.user_will_switch_to_new_window_and_get_title()
Then user click on Add to Cart # steps.AmazonTestPage.user_click_on_add_to_cart()
Then User refreshes the Page and click on Cart link # steps.AmazonTestPage.user_refreshes_the_page_and_click_on_cart_link()
```

Now Run the same project using Jenkins.

Cucumber Lesson End Project



Cucumber Lesson End Project



The screenshot shows a web browser window displaying the Jenkins console output for a job named 'cucumberlessonendproject #1'. The browser address bar shows 'localhost:8081/job/cucumberlessonendproject/1/console'. The Jenkins interface includes a sidebar with links to 'View as plain text', 'Edit Build Information', and 'Git Build Data'. The main console area displays the following text:

```
Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\cucumberlessonendproject
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Sonal0409/ATe-Phase2-Jenkins-Cucumber-jan24.git
> git.exe init C:\ProgramData\Jenkins\jenkins\workspace\cucumberlessonendproject # timeout=10
Fetching upstream changes from https://github.com/Sonal0409/ATe-Phase2-Jenkins-Cucumber-jan24.git
> git.exe --version # timeout=10
> git --version # 'git version 2.43.0.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/Sonal0409/ATe-Phase2-Jenkins-Cucumber-jan24.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/Sonal0409/ATe-Phase2-Jenkins-Cucumber-jan24.git #
timeout=10
> git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision 91392af978c514b1139b33e46d602890b5b34df1 (refs/remotes/origin/master)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 91392af978c514b1139b33e46d602890b5b34df1 # timeout=10
Commit message: "done"
First time build. Skipping changelog.
[cucumberlessonendproject] $ cmd.exe /C
"C:\ProgramData\Jenkins\jenkins\tools\udson.tasks.Maven_MavenInstallation\mymaven\bin\mvn.cmd test && exit
%%ERRORLEVEL%%"
```

The Windows taskbar at the bottom shows the system clock as 16:47 on 31-01-2024, with a temperature of 30°C and 'Sunny' weather.

GitHub Link: [chandumj/simplilearnprojects \(github.com\)](https://github.com/chandumj/simplilearnprojects)