Phase-2 Practice Project-Cucumber

Repository: https://github.com/Joshnitha/Phase2_Practice-Projects/

Create a Cucumber Framework for Amazon App.

Description

As a Full Stack Developer, you have to build an automation script and integrate it with Cucumber to implement BDD approach in the project.

Background of the problem statement:

As the project is in the final stage, management has asked you to automate the basic functionalities of Amazon for the internal employees. Also, you shall integrate it with Cucumber for easy development. This will help the development and DevOps team to work efficiently with the application.

You must use the following:

- Eclipse
- Selenium WebDriver
- Cucumber
- GitHub

SoureCode:

Feature file: Amazonpage.feature

@all

Feature: Test the amazon page on chrome Browser

@search @functional

Scenario: Test search mobile on amazon page

Given User is on the amazon page

Then click on moblies

Then click on moblies and accessories

Then click on apple

Then click on Product

And click on add to cartAdd

Step Definition : BaseAmazon – Base Class

```
package steps;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import io.cucumber.java.After;

import io.cucumber.java.AfterAll;

import io.cucumber.java.AfterStep;

import io.cucumber.java.Before;

import io.cucumber.java.BeforeAll;

import io.cucumber.java.BeforeStep;


public class BaseAmazon {

	@BeforeAll

	public static void featurestarts()

	{

		System.out.println("The feature has started execution");

	}

	@AfterAll

	public static void featureends()

	{

		System.out.println("The feature has completed execution");

	}

	public static WebDriver driver;

	@Before(order=0,value="@login and @functional")   // this is cucumber hooks

	public void ConditionalHooks()

	{

		System.out.println("Task 1: Open the Chrome Browser");
```

```
}
@Before(order=0,value="@login or @functional")   // this is cucumber hooks
public void ConditionalHooks1()
{
	System.out.println("Task 1: Open the Chrome Browser");
}
@Before(order=0,value="not @login")   // this is cucumber hooks
public void ConditionalHooks2()
{
	System.out.println("Task 1: Open the Chrome Browser");
}
@Before(order=0,value="@functional")   // this is cucumber hooks
public void OpenBrowser()
{
	System.out.println("Task 1: Open the Chrome Browser");
	driver = new ChromeDriver();

}
// before every scenario in feature file these methods will run
@Before(order=1,value="@functional")
public void managebrowserwindow()
{
	System.out.println("Task 2: Manage browser window");
	driver.manage().deleteAllCookies();
	driver.manage().window().maximize();
}
// before every scenario in feature file these methods will run
```

```
@Before(order=2,value="@functional")
public void openUrl()
{
	System.out.println("Task 3: Enter URL");
	driver.get("https://www.amazon.in/");
}
// before every steps of a scenario this hook will run
@BeforeStep
public void stepstart()
{
	System.out.println("The steps has started execution");
}
// after every steps of a scenario this hook will run
	@AfterStep
	public void stepend()
	{
		System.out.println("The steps has completed execution");
	}
// these methods i want to run after every scenairo in my feature
@After(order=2,value="@functional")
public void capturetitle()
{
	System.out.println("Task 4: Capturetitle");
	System.out.println(driver.getTitle());
}
@After(order=1,value="@functional")
public void closebrowser()
```

```
	{
		System.out.println("Task 5: browser is now closed");
		driver.close();
	}
	@After(order=0,value="@functional")
	public void Testcompletemessage()
	{
		System.out.println("Task 6: Test scenario is now completed")
	}
}
```

Step Definition : Amazonpage_steps

```
package steps;
import java.util.ArrayList;
import org.openqa.selenium.By;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import io.cucumber.java.en.And;
import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;
public class Amazonpage_steps{
@Given("User is on the amazon page")
public void user_is_on_the_amazon_page() {
System.out.println("Yes, user is on the amazon page");
}
@Then("click on moblies")
public void click_on_moblies() {
BaseAmazon.driver.findElement(By.linkText("Mobiles")).click();
```

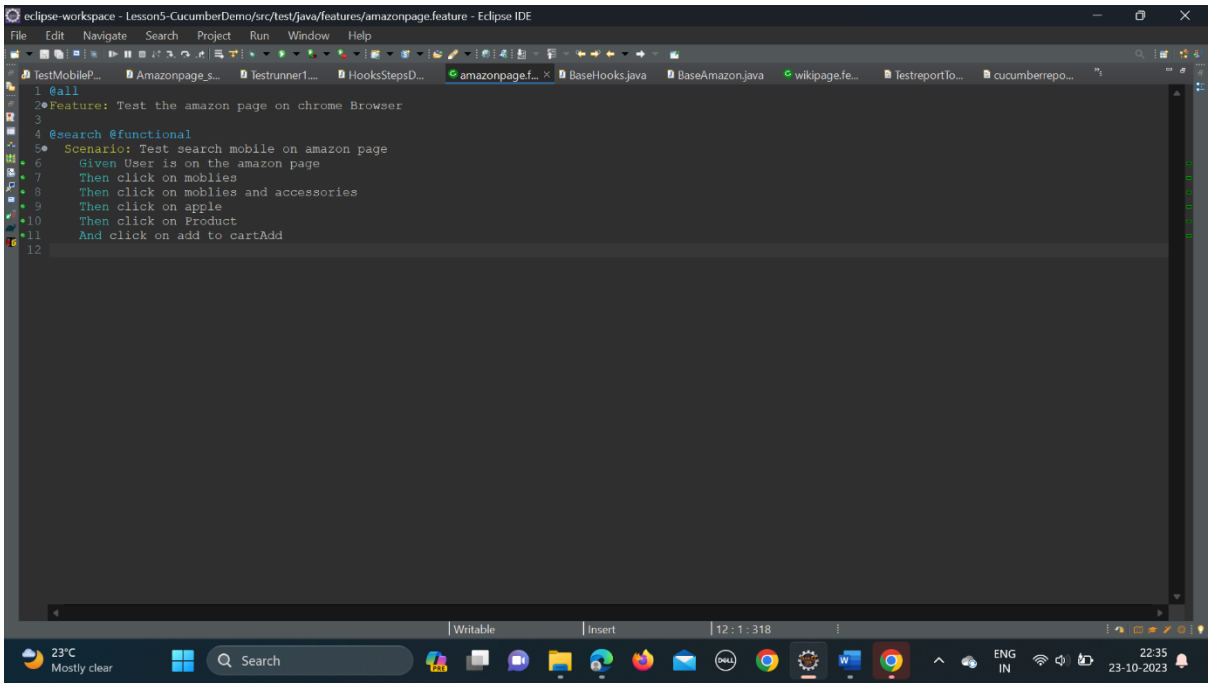
```
}

@Then("click on moblies and accessories")

public void click_on_moblies_and_accessories() throws InterruptedException {

WebElement mobile = BaseAmazon.driver.findElement(By.xpath("//*[@id='nav-
subnav']/descendant::span[2]"));

Actions a = new Actions(BaseAmazon.driver);

a.moveToElement(mobile).build().perform();

Thread.sleep(3000);

}

@Then("click on apple")

public void click_on_apple() {

BaseAmazon.driver.findElement(By.linkText("Apple")).click();

}

@Then("click on Product")

public void click_on_product() {

BaseAmazon.driver.findElement(By.xpath("(//div[@class='sg-col-inner'])[6]/descendant::span[9]")).click();

}

@And("click on add to cartAdd")

public void click_on_add_to_cart_add() throws InterruptedException {

ArrayList<String> tabs = new ArrayList<String>(BaseAmazon.driver.getWindowHandles());

BaseAmazon.driver.switchTo().window(tabs.get(1));

Thread.sleep(1500);

BaseAmazon.driver.findElement(By.id("add-to-cart-button")).click();

}

}
```

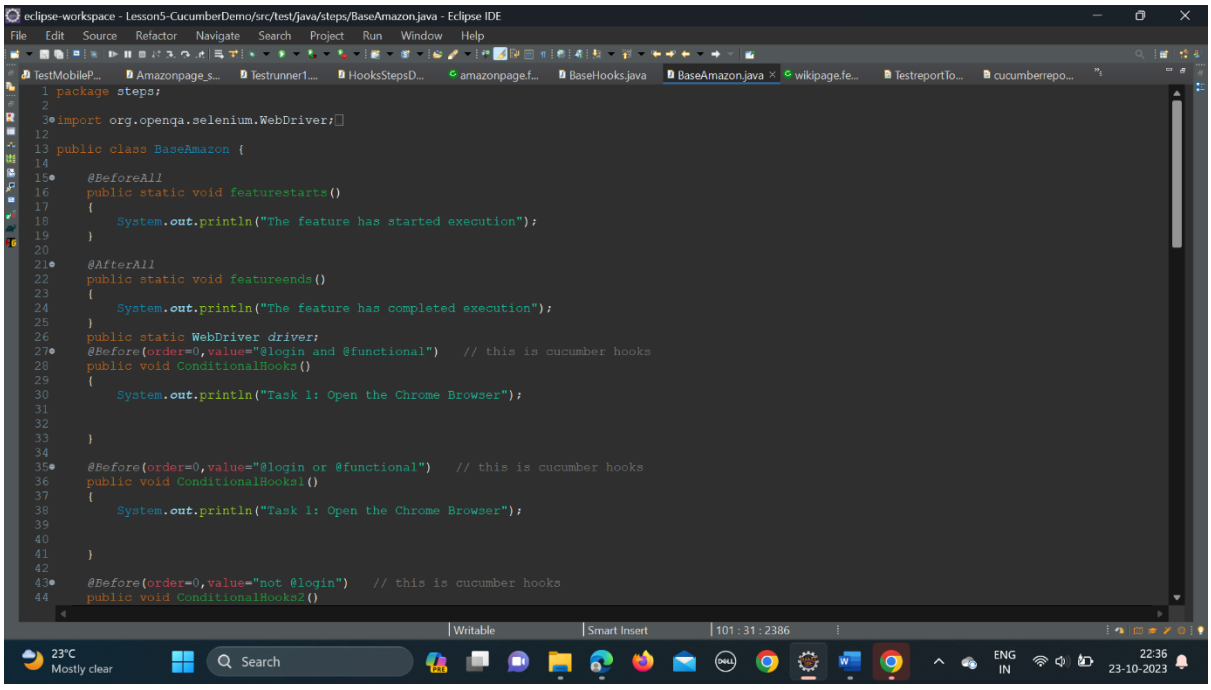
Runner file : TestRunner1

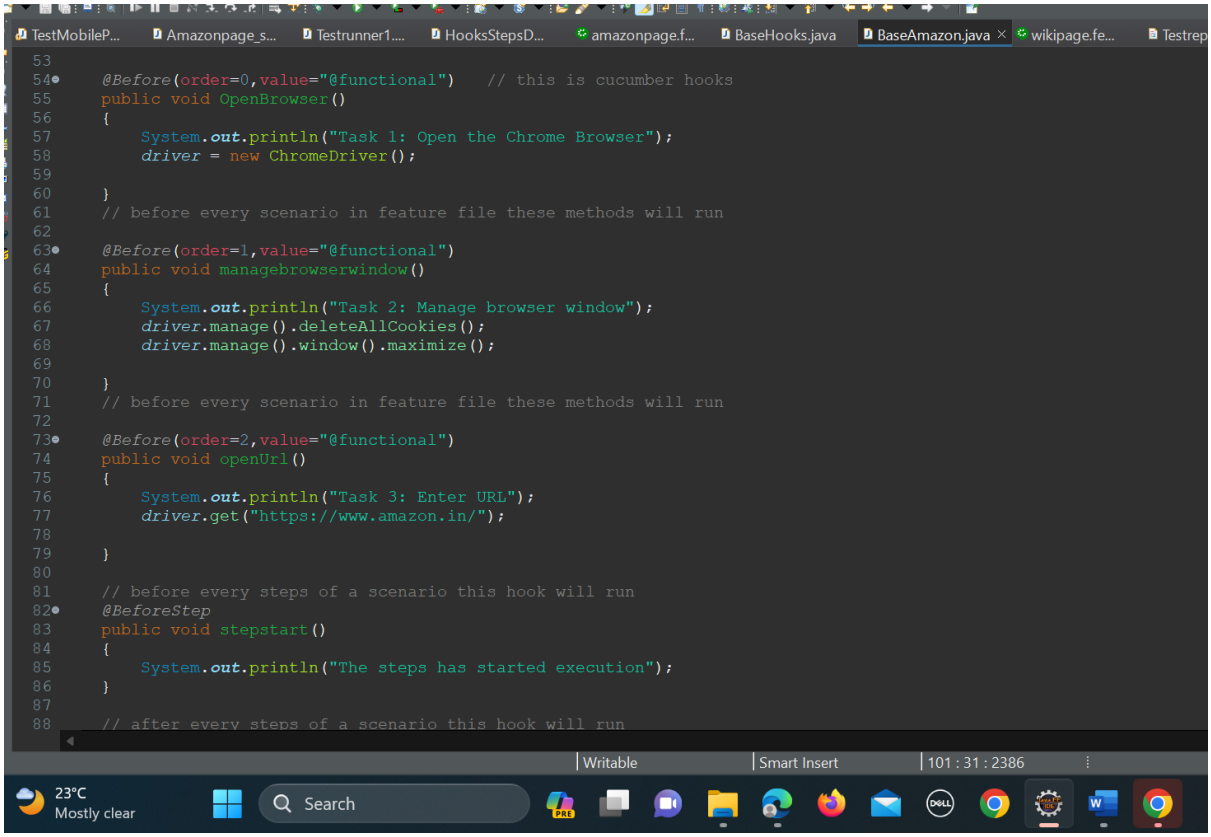
```
package runner;



import org.junit.runner.RunWith;

import io.cucumber.junit.Cucumber;

import io.cucumber.junit.CucumberOptions;



@RunWith(Cucumber.class)

@CucumberOptions(features = "C:\\Users\\DELL\\eclipse-workspace\\Lesson5-
CucumberDemo\\src\\test\\java\\features\\amazonpage.feature",

        glue = {"steps"},

        dryRun = false,

        plugin = {"prett"

                        + "y",

                          "html:target/TestreportToday.html",

"com.aventstack.extentreports.cucumber.adapter.ExtentCucumberAdapter:",

                                "timeline:test-output-thread/"       },

        monochrome = true, // console output will be in more readable format

        tags = "@all"

                )



public class Testrunner1 {

}
```

ScreenShots:

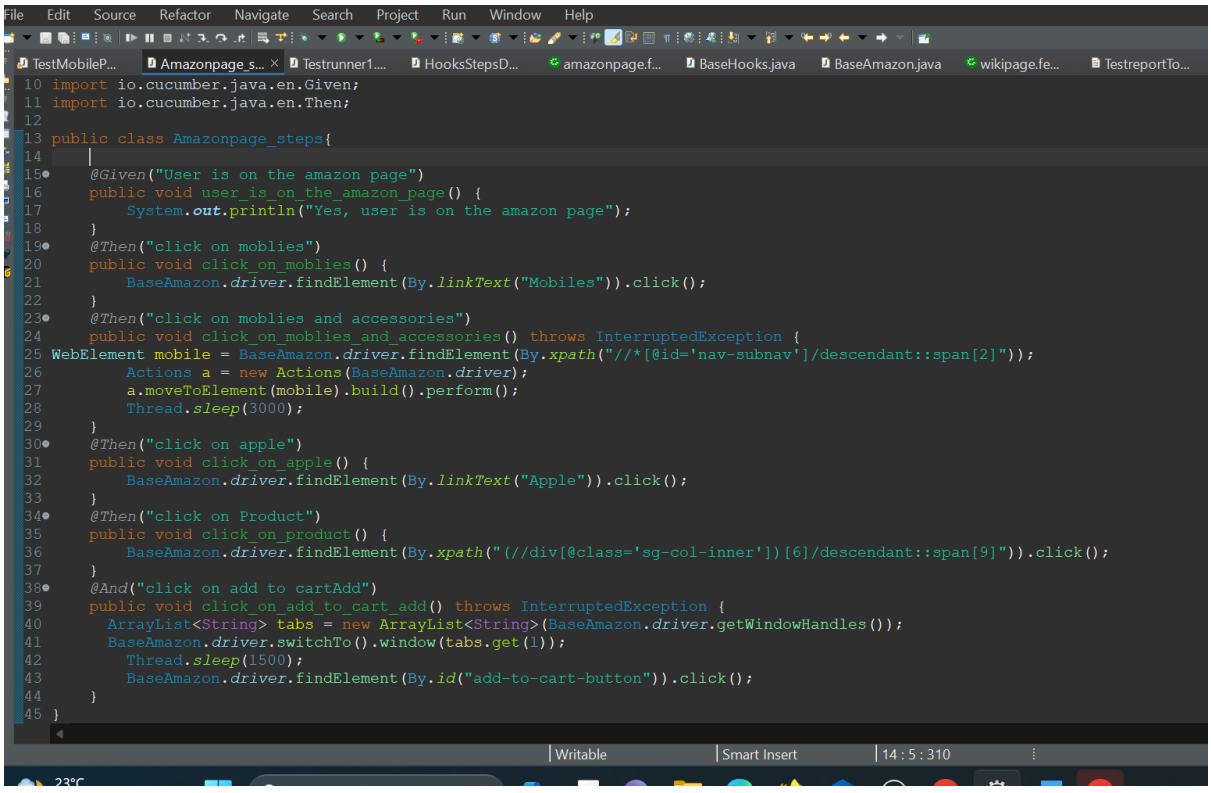
Program :





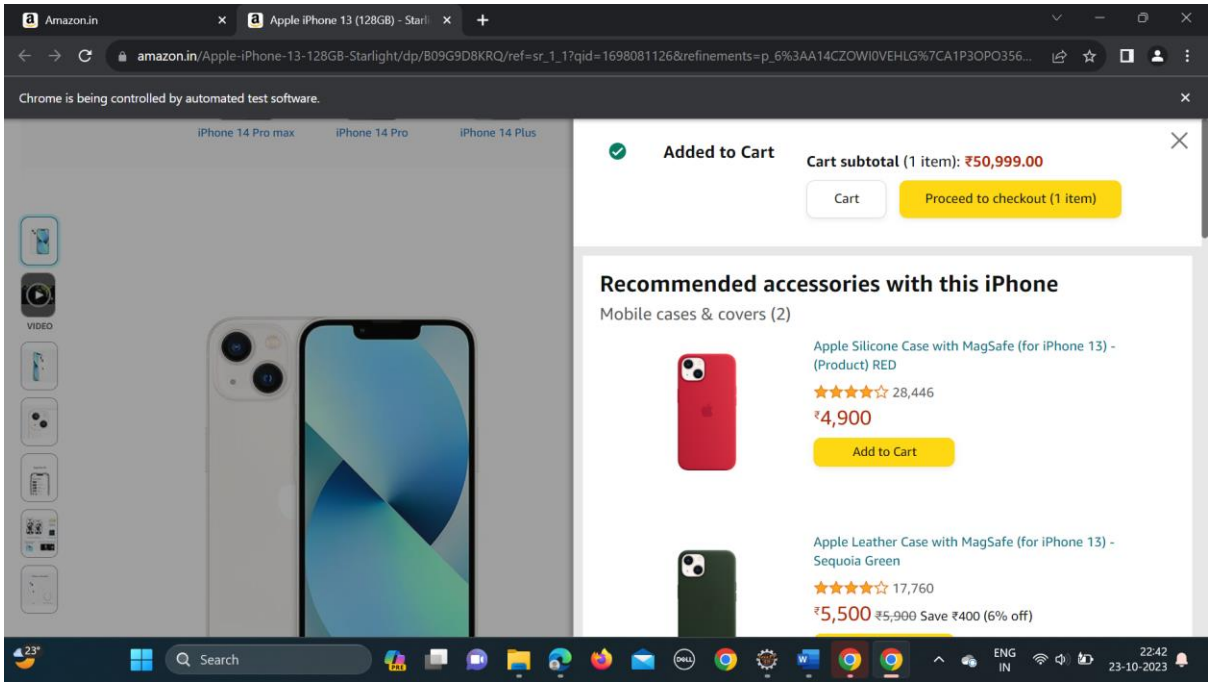


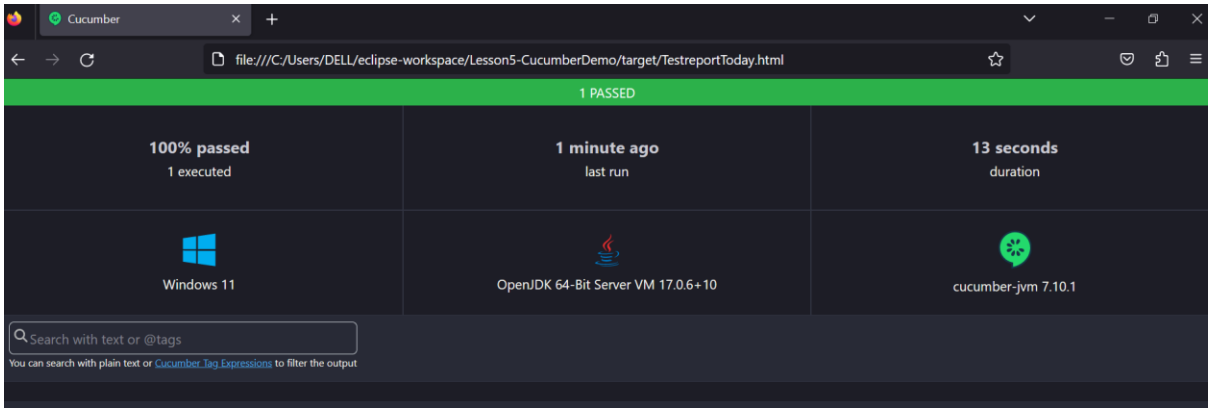
```java
@Before(order=0,value="@functional")   // this is cucumber hooks
public void OpenBrowser()
{
    System.out.println("Task 1: Open the Chrome Browser");
    driver = new ChromeDriver();

}
// before every scenario in feature file these methods will run

@Before(order=1,value="@functional")
public void managebrowserwindow()
{
    System.out.println("Task 2: Manage browser window");
    driver.manage().deleteAllCookies();
    driver.manage().window().maximize();

}
// before every scenario in feature file these methods will run

@Before(order=2,value="@functional")
public void openUrl()
{
    System.out.println("Task 3: Enter URL");
    driver.get("https://www.amazon.in/");

}

// before every steps of a scenario this hook will run
@BeforeStep
public void stepstart()
{
    System.out.println("The steps has started execution");
}

// after every steps of a scenario this hook will run
```

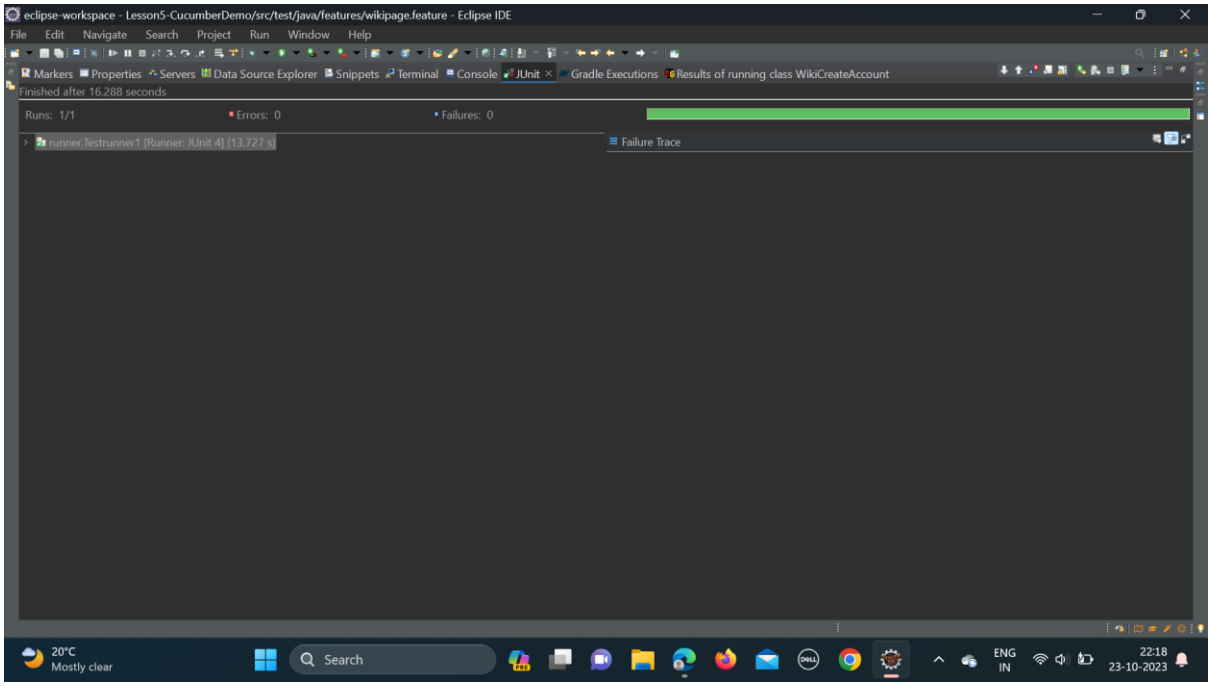


```java
import io.cucumber.java.en.Given;
import io.cucumber.java.en.Then;

public class Amazonpage_steps{

    @Given("User is on the amazon page")
    public void user_is_on_the_amazon_page() {
        System.out.println("Yes, user is on the amazon page");
    }
    @Then("click on moblies")
    public void click_on_moblies() {
        BaseAmazon.driver.findElement(By.linkText("Mobiles")).click();
    }
    @Then("click on moblies and accessories")
    public void click_on_moblies_and_accessories() throws InterruptedException {
WebElement mobile = BaseAmazon.driver.findElement(By.xpath("//*[@id='nav-subnav']/descendant::span[2]"));
        Actions a = new Actions(BaseAmazon.driver);
        a.moveToElement(mobile).build().perform();
        Thread.sleep(3000);
    }
    @Then("click on apple")
    public void click_on_apple() {
        BaseAmazon.driver.findElement(By.linkText("Apple")).click();
    }
    @Then("click on Product")
    public void click_on_product() {
        BaseAmazon.driver.findElement(By.xpath("(//div[@class='sg-col-inner'])[6]/descendant::span[9]")).click();
    }
    @And("click on add to cartAdd")
    public void click_on_add_to_cart_add() throws InterruptedException {
      ArrayList<String> tabs = new ArrayList<String>(BaseAmazon.driver.getWindowHandles());
      BaseAmazon.driver.switchTo().window(tabs.get(1));
        Thread.sleep(1500);
        BaseAmazon.driver.findElement(By.id("add-to-cart-button")).click();
    }
}
```

Output:


Amazon.in
Apple iPhone 13 (128GB) - Starli
amazon.in/Apple-iPhone-13-128GB-Starlight/dp/B09G9D8KRQ/ref=sr_1_1?qid=1698081126&refinements=p_6%3AA14CZOWI0VEHLG%7CA1P3OPO356...
Chrome is being controlled by automated test software.
iPhone 14 Pro max
iPhone 14 Pro
iPhone 14 Plus
VIDEO
Added to Cart
Cart subtotal (1 item): ₹50,999.00
Cart
Proceed to checkout (1 item)
Recommended accessories with this iPhone
Mobile cases & covers (2)
Apple Silicone Case with MagSafe (for iPhone 13) - (Product) RED
28,446
₹4,900
Add to Cart
Apple Leather Case with MagSafe (for iPhone 13) - Sequoia Green
17,760
₹5,500 ₹5,900 Save ₹400 (6% off)
Search
ENG
IN
22:42
23-10-2023


Cucumber
file:///C:/Users/DELL/eclipse-workspace/Lesson5-CucumberDemo/target/TestreportToday.html
1 PASSED
100% passed
1 executed
1 minute ago
last run
13 seconds
duration
Windows 11
OpenJDK 64-Bit Server VM 17.0.6+10
cucumber-jvm 7.10.1
Search with text or @tags
You can search with plain text or Cucumber Tag Expressions to filter the output


eclipse-workspace - Lesson5-CucumberDemo/src/test/java/features/wikipage.feature - Eclipse IDE
File Edit Navigate Search Project Run Window Help
Markers Properties Servers Data Source Explorer Snippets Terminal Console JUnit Gradle Executions Results of running class WikiCreateAccount
Finished after 16.288 seconds
Runs: 1/1
Errors: 0
Failures: 0
runner.Testrunner1 [Runner: JUnit 4] (13.727 s)
Failure Trace
20°C
Mostly clear
Search
ENG
IN
22:18
23-10-2023