```java
package in.amazon.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class AddCart {

@FindBy(id="add-to-cart-button")
private WebElement addcart;

public AddCart(WebDriver driver)
{
        PageFactory.initElements(driver,this);

}
public void addCart()
{
        addcart.click();
}


}

package in.amazon.pages;
import java.time.Duration;
```

```java
import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.interactions.Actions;

import org.openqa.selenium.support.FindBy;

import org.openqa.selenium.support.PageFactory;

import org.openqa.selenium.support.ui.WebDriverWait;


public class CustomerReview {

        @FindBy(css="#p_72\\/1318476031 > span > a > section > span")

        private WebElement customer;


        @FindBy(xpath="(//img[contains(@class, 's-image')])[1]")

        private WebElement book;

        public CustomerReview(WebDriver driver)

        {

                PageFactory.initElements(driver,this);


        }

        public void customerReview() throws InterruptedException

        {

                customer.click();

                Thread.sleep(3000);

        }


        public void Book()

        {
```

```java
            book.click();
        }

}

package in.amazon.pages;

import java.time.Duration;

import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.interactions.Actions;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;

public class LandingPage {

        private Actions actions;
        private WebDriverWait wait;

        @FindBy(id="twotabsearchtextbox")
        private WebElement searchbox;

        @FindBy(xpath="//div[contains(@class, 'autocomplete-results-
container')]")
```

```java
        private WebElement autoCompleteBox;

        public LandingPage(WebDriver driver)
        {
                PageFactory.initElements(driver,this);
                actions=new Actions(driver);
                wait=new WebDriverWait(driver,Duration.ofSeconds(60));
        }

        public void searchItem(String item) throws InterruptedException
    {
        searchbox.sendKeys(item);
        //Thread.sleep(30000);

        wait.until(ExpectedConditions.visibilityOfAllElements(autoCompleteBox));

        actions.sendKeys(Keys.ARROW_DOWN).sendKeys(Keys.ARROW_DOWN).sendKeys(Keys.ARROW_DOWN).sendKeys(Keys.ENTER).build().perform();

    }

}
package in.amazon.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
```

```java
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class SignIn {
        @FindBy(xpath="//h1[contains(@class, 'small')]")
        private WebElement signInText;

        @FindBy(id="ap_email")
        private WebElement emailTextbox;

        @FindBy(id="continue")
        private WebElement continueBtn;

        @FindBy(xpath="//span[contains(@class, 'a-list-item')]")
        private WebElement errMsg;

        public SignIn(WebDriver driver)
        {
                PageFactory.initElements(driver,this);
        }
        public String getSignInText()
        {
                String text=signInText.getText();
                return text;

        }
        public void enterEmail(String email)
```

```java
		{
			emailTextbox.sendKeys(email);
		}


	public void clickcontinueBtn()
	{
			continueBtn.click();
	}


	public String getErrMsg()
	{
			String message=errMsg.getText();
			return message;
	}

}


package in.amazon.pages;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;

public class VerifyTitle {

	@FindBy(xpath="//span[contains(@class, 'a-size-medium-plus a-color-base sw-atc-text a-text-bold')]")
```

```java
    private WebElement verify;

        @FindBy(name="proceedToRetailCheckout")
        private WebElement buybtn;
        public VerifyTitle(WebDriver driver)
        {
                PageFactory.initElements(driver,this);

        }
        public String verifyTitle()
        {
                return verify.getText();
        }

        public void proceedBuyBtn()
        {
                buybtn.click();
        }

}

package in.amazon.teststeps;

import io.cucumber.java.After;
import io.cucumber.java.Before;
import io.cucumber.java.Scenario;
```

```java
public class BeforeAfter extends Tools{//Hooks

        @Before
        public void setUp(Scenario scenario)
        {
                Driver.init();
        }
        @After
        public void tearDown()
        {
                driver.quit();
        }

}

package in.amazon.teststeps;

import static org.testng.Assert.assertEquals;

import java.util.ArrayList;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.testng.Assert;

import in.amazon.pages.AddCart;
```

```java
import in.amazon.pages.CustomerReview;

import in.amazon.pages.LandingPage;

import in.amazon.pages.SignIn;

import in.amazon.pages.VerifyTitle;

import io.cucumber.java.en.Given;

import io.cucumber.java.en.Then;

import io.cucumber.java.en.When;


public class BuyPhysicsBookSteps extends Driver {



    @Given("a user is on landing page of Amazon")
    public void a_user_is_on_landing_page_of_amazon() {




    }


    @When("a user is  type physics books in the search box and select 3rd option from the drop-down")
    public void
a_user_is_type_physics_books_in_the_search_box_and_select_3rd_option_from_the_drop_down() throws InterruptedException {


        landingpage.searchItem("physics books");


    }
```

```java
@When("he select rating {int} star and above from the left sidebar")
public void
he_select_rating_star_and_above_from_the_left_sidebar(Integer int1) throws
InterruptedException {
        CustomerReview review=new CustomerReview(driver);
        review.customerReview();


}


@When("he click on the first search result")
public void he_click_on_the_first_search_result() {



        review.Book();
}


@When("he switches focus on the new tab")
public void he_switches_focus_on_the_new_tab() {
        ArrayList<String> tabs=new
ArrayList<>(driver.getWindowHandles());
        driver.switchTo().window(tabs.get(1));


}


@When("he click Add to Cart button")
public void he_click_add_to_cart_button() {
```

```java
        add.addCart();
    }


    @Then("he  verify the text - Added to Cart is displayed")
    public void he_verify_the_text_added_to_cart_is_displayed() {
VerifyTitle title=new VerifyTitle(driver);


        String actual=title.verifyTitle();
        String expected="Added to Cart";
        assertEquals(actual, expected);
    }


    @Then("he click on Proceed to Buy button")
    public void he_click_on_proceed_to_buy_button() {


        title.proceedBuyBtn();
    }


    @Then("he  verify that I am on the Sign in page")
    public void he_verify_that_i_am_on_the_sign_in_page() {
        SignIn signin=new SignIn(driver);
        String expetedText="Sign in";
        String ActalText=signin.getSignInText();
        Assert.assertEquals(ActalText, expetedText);
    }
```

```
package in.amazon.teststeps;

import org.openqa.selenium.WebDriver;

public class Tools {

protected static WebDriver driver;

}
```

package in.amazon.teststeps;

import org.openqa.selenium.chrome.ChromeDriver;

import in.amazon.pages.AddCart;
import in.amazon.pages.CustomerReview;
import in.amazon.pages.LandingPage;
import in.amazon.pages.SignIn;
import in.amazon.pages.VerifyTitle;

public class Driver extends Tools{

      protected static LandingPage landingpage;
      protected static CustomerReview review;
      protected static AddCart add;
      protected static VerifyTitle title;
      protected static SignIn signin;
      public static void init()
      {
          driver=new ChromeDriver();

```java
			driver.manage().window().maximize();

			driver.get("https://www.amazon.in/");

			landingpage=new LandingPage(driver);

			review=new CustomerReview(driver);

			 add=new AddCart(driver);

			 title=new VerifyTitle(driver);

			 SignIn signin=new SignIn(driver);


		}


}



}

package in.amazon.teststeps;

import io.cucumber.testng.AbstractTestNGCucumberTests;

import io.cucumber.testng.CucumberOptions;

@CucumberOptions(

			features="Features//buy_physics_book.feature",

			glue="in.amazon.teststeps"

			)


public class TestRunner  extends AbstractTestNGCucumberTests{
```

}