```java
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')]")
        private WebElement searchboxcontainer;

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

        public void selectsearchitem(String item) {
                searchbox.sendKeys(item);
```

```java
            wait.until(ExpectedConditions.visibilityOfAllElements(searchboxcontainer));

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

public class cart {

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

    @FindBy(id = "sw-ptc-form")
    private WebElement proceedToBuy;

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

    public String CartText() {
        return cartText.getText();
    }
```

```java
        public void Buy() {

                proceedToBuy.click();

        }

}

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 AllProducts {


        @FindBy(xpath = "//section[contains(@aria-label,'4 Stars & Up')]")

        private WebElement stars;


        @FindBy(xpath = "(//span[contains(@class,'a-size-medium a-color-base a-text-normal')])[1]")

        private WebElement firstproduct;


        public AllProducts(WebDriver driver) {

                PageFactory.initElements(driver, this);

        }


        public void selectStar() throws InterruptedException {

                stars.click();

                Thread.sleep(2000);

        }


        public void FirstProduct() {

                firstproduct.click();

        }

}
```

```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 Products {


        @FindBy(id = "add-to-cart-button")

        private WebElement addtocart;


        public Products (WebDriver driver) {

                PageFactory.initElements(driver, this);

        }


        public void AddCart() {

                addtocart.click();

        }
}


package in.amazon.teststeps;


import static org.testng.Assert.assertEquals;

import static org.testng.Assert.assertTrue;


import java.util.ArrayList;


import io.cucumber.java.en.Given;

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

```java
import io.cucumber.java.en.When;


public class VerifyText extends Driver{


        @Given("a user is in the LandingPage on amazon")

        public void a_user_is_in_the_landing_page_on_amazon() {

                assertTrue(driver.getTitle().equals("Online Shopping site in India: Shop Online for
Mobiles, Books, Watches, Shoes and More - Amazon.in"));

        }


        @When("he type search-item in the search box and then select 3rd option from the drop-
down")

        public void
he_type_search_item_in_the_search_box_and_then_select_3rd_option_from_the_drop_down() {

                landingpage.selectsearchitem("Physics books");

        }


        @When("select rating 4star and above from left side bar")

        public void select_rating_4star_and_above_from_left_side_bar() throws
InterruptedException {

                allproduct.selectStar();

        }


        @When("Click on the first search result")

        public void click_on_the_first_search_result() {

           allproduct.FirstProduct();

        }


        @When("Click Add to Cart button")

        public void click_add_to_cart_button() {

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

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

```java
            product.AddCart();

        }


        @When("Verify the text Added to Cart is displayed")
        public void verify_the_text_added_to_cart_is_displayed() {

                String Actual = cart.CartText();

                String Expected = "Added to Cart";

            assertEquals(Actual,Expected);

        }


        @When("Click on Proceed to Buy button")
        public void click_on_proceed_to_buy_button() {

            cart.Buy();

        }


        @Then("Verify user is on the Sign in page")
        public void verify_user_is_on_the_sign_in_page() {

                assertTrue(driver.getTitle().equals("Amazon Sign In"));

        }

}


package in.amazon.teststeps;


import io.cucumber.testng.AbstractTestNGCucumberTests;

import io.cucumber.testng.CucumberOptions;


@CucumberOptions(

                features = "Features",

                glue = "in.amazon.teststeps"

                )
```

```java
public class TestRunner extends AbstractTestNGCucumberTests{


}
package in.amazon.teststeps;


import org.openqa.selenium.chrome.ChromeDriver;


import in.amazon.pages.AllProducts;
import in.amazon.pages.cart;
import in.amazon.pages.LandingPage;
import in.amazon.pages.Products;


public class Driver extends Tools{
        protected static LandingPage landingpage;
        protected static AllProducts allproduct;
        protected static Products product;
        protected static cart cart;


        public static void init() {
                driver = new ChromeDriver();
            driver.manage().window().maximize();
            driver.get("https://www.amazon.in/");
            landingpage = new LandingPage(driver);
            allproduct = new AllProducts(driver);
            product = new Products(driver);
            cart = new cart(driver);
        }


}
```

Feature: Test Cucumber Project

Scenario: a user must be able to go to sign in page
Given a user is in the LandingPage on amazon
When he type search-item in the search box and then select 3rd option from the drop-down
And select rating 4star and above from left side bar
And Click on the first search result
And Click Add to Cart button
And Verify the text Added to Cart is displayed
And Click on Proceed to Buy button
Then Verify user is on the Sign in page