QUESTION 1:

Problem Statement 1

An e-commerce website that allows users to search and purchase products online. Design a test suite to test the checkout functionality using Selenium. Consider different test scenarios such as adding products to the cart, searching product, and selecting payment methods.

Question 1 (1*25=25)

1. *Verify that the user can add a product to the cart by clicking on the "Add to Cart" button on the product page.*
2. *Verify that the user can remove a product from the cart by clicking on the "Remove" button next to the product.*
3. *Verify that the user can update the quantity of a product in the cart by changing the quantity and clicking on the "Update" button.*
4. *Verify that the user can proceed to the checkout page by clicking on the "Checkout" button on the cart page.*
5. *Verify that the checkout process is working as expected and calculates the total cost accurately.*

1.

```java
package com.Selenium.Test.selenium1;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import org.openqa.selenium.edge.EdgeDriver;

import org.openqa.selenium.interactions.Actions;

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

import dev.failsafe.internal.util.Assert;

import io.github.bonigarcia.wdm.WebDriverManager;

public class Q1 {

public static void main( String[] args ) throws InterruptedException

{

WebDriverManager.chromedriver().setup();
```

```java
ChromeOptions co=new ChromeOptions();

co.addArguments("--remote-allow-origins=*");

WebDriver driver=new ChromeDriver(co);

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

driver.get("https://www.flipkart.com/mxsox-men-striped-ankle-
length/p/itmf61c335970c94?pid=SOCGJQUATKFHDMTH&lid=LSTSOCGJQUATKFHDMTHWEOGK
R&marketplace=FLIPKART&q=socks+for+men&store=clo%2Fqd8%2Fezr%2Fut9&srno=s_1
_1&otracker=AS_QueryStore_OrganicAutoSuggest_1_4_na_na_na&otracker1=AS_Quer
yStore_OrganicAutoSuggest_1_4_na_na_na&fm=search-
autosuggest&iid=en_%2BH%2BV54WXTnzU9NDktxPLO19%2BltQsXh2xzfZZMLAuMrvT8nzQL%
2Bb7cciYvnFpB6ohn4ZHTyso7k8G320ADY48HA%3D%3D&ppt=sp&ppn=sp&ssid=icvyexlv2o0
000001683797431813&qH=d24581762cd42d9d");

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

String t=driver.getTitle();

System.out.println(t);

String
cart=driver.findElement(By.xpath("//*[@id=\"NATC_SMART_WAGON_CONF_MSG_SUCCE
SS\"]/span")).getText();

if(cart.equals("Added to cart"));

System.out.println("Item is added to cart ");

driver.navigate().back();

WebElement sort1=driver.findElement(By.xpath("//*[@id=\"quantity\"]"));

sort1.click();

Select select=new Select(sort1);

select.selectByIndex(1);

String
drop=driver.findElement(By.xpath("//*[@id=\"quantity\"]")).getText();

if(drop.equals("2"));

System.out.println("3. Verified that Product is updated to cart ");

driver.findElement(By.xpath("//*[@id=\"container\"]/div/div[1]/div[1]/div[2
]/div[6]/div/div/a")).click();

        driver.findElement(By.className("_3dsJAO")).click();

        System.out.println("Item is Removed From The Cart");

}
```
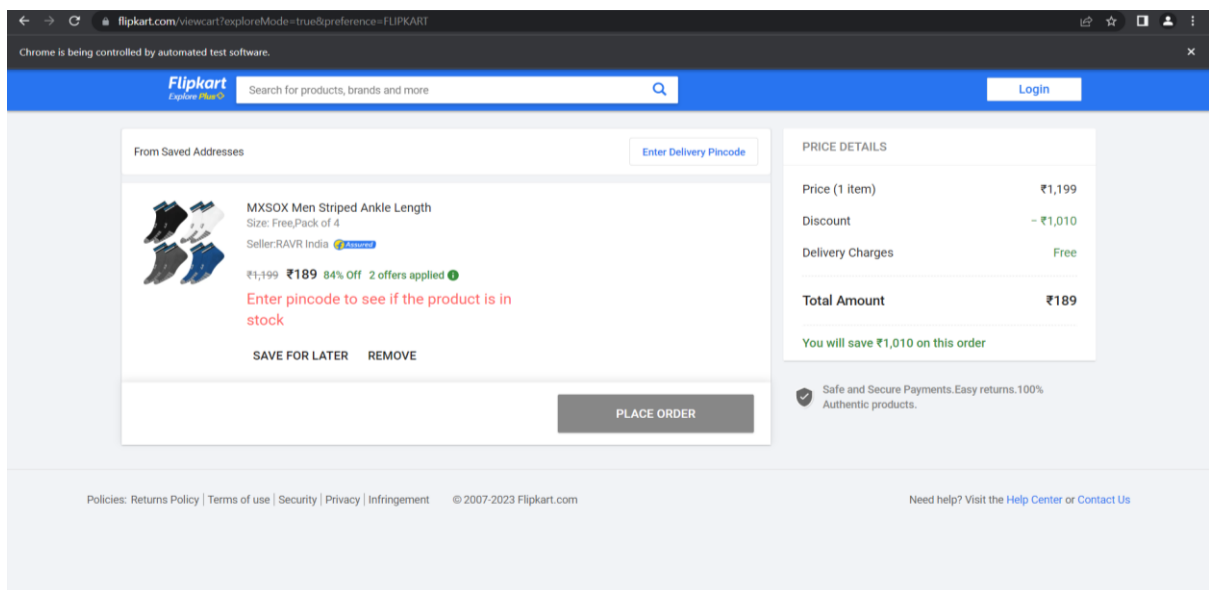
}

OUTPUT:

```
MXSOX Men Striped Ankle Length - Buy MXSOX Men Striped Ankle Length Online at Best Prices in India | Flipkart.com
Item is Added To cart
Item is Remoned from the cart
Item Updated
PASSED: CA_1.NewTest.f

===========================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
===========================================


===========================================
Default suite
Total tests run: 1, Passes: 1, Failures: 0, Skips: 0
```

Q.NO:2.

1.

package com.selenium.test1.Selenium;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import io.github.bonigarcia.wdm.WebDriverManager;

```java
public class search2 {

        public static void main(String[] args) {

        // Set the path to the chromedriver executable

        System.setProperty("webdriver.chrome.driver", "/path/to/chromedriver");


        WebDriverManager.chromedriver().setup();

            ChromeOptions co=new ChromeOptions();

            co.addArguments("--remote-allow-origins=*");

            WebDriver driver=new ChromeDriver(co);

            driver.get("https://www.flipkart.com/");

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

        System.out.println("Page Title: " + driver.getTitle());


        String name = driver.getTitle();

                System.out.println(name);

                String title = "Online Shopping site in India: Shop Online for Mobiles, Books,
Watches, Shoes and More - Amazon.in";

                if(name.equals(title)) {

                        System.out.println("Validated Page Title");

                }


        driver.findElement(By.id("twotabsearchtextbox")).sendKeys("bag");

        driver.findElement(By.id("nav-search-submit-button")).click();


        String expectedSearchTitle = "Amazon.com : bag";

        String actualSearchTitle = driver.getTitle();

        if (actualSearchTitle.contains(expectedSearchTitle)) {

          System.out.println("Search is successfull");

        } else {

          System.out.println("Search is failed!");

        }
```
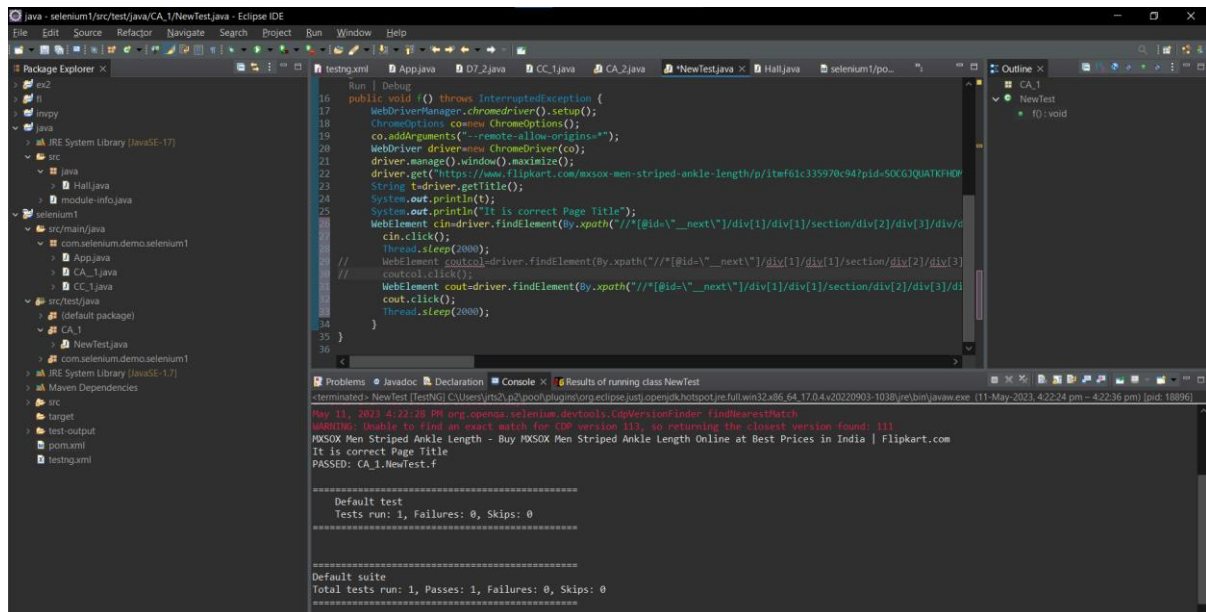
```
        driver.quit();

    }


}
```

OUTPUT:

2.

package com.Selenium.test1;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.JavascriptExecutor;

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

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;


import io.github.bonigarcia.wdm.WebDriverManager;


public class QNo2 {


        public static void main(String args[]) {

                WebDriverManager.chromedriver().setup();

                ChromeOptions co=new ChromeOptions();

                co.addArguments("--remote-allow-origins=*");

                WebDriver driver=new ChromeDriver(co);


        driver.get("https://www.flipkart.in/deal/2c2d3a50/?_encoding=UTF8&showVariations=true
&_ref=dlx_gate_sd_dcl_tlt_2c2d3a50_dt&pd_rd_w=YgMyt&content-id=amzn1.sym.a532052b-26f3-
4811-a261-3b35ffa57237&pf_rd_p=a532052b-26f3-4811-a261-
3b35ffa57237&pf_rd_r=SWJFXC5PAM03PF4G0AWT&pd_rd_wg=6zviy&pd_rd_r=1f436e7b-ab36-
4c27-9e50-8f8c69db422a&ref_=pd_gw_unk");

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


                JavascriptExecutor js=(JavascriptExecutor) driver;

                js.executeScript("window.scrollBy(0,1000)","");


                String title = driver.getTitle();

                System.out.println(title);

                String title2="Budget Laptops under INR 45000; Mega Electronic Days";

                //title2=driver.getTitle();

                if(title2.equals(title)) {

                        System.out.println("It is corret page title");

                }
```

```java
        List<WebElement>li=driver.findElements(By.xpath("//*[@id=\"octopus-dlp-asin-stream\"]/ul/li[2]/span/div/div[2]/div[1]/a"));

        for(WebElement link:li) {

                System.out.println(link.getText());

        }


        driver.navigate().back();

        driver.navigate().forward();

        driver.navigate().refresh();

        driver.quit();


    }
}
```
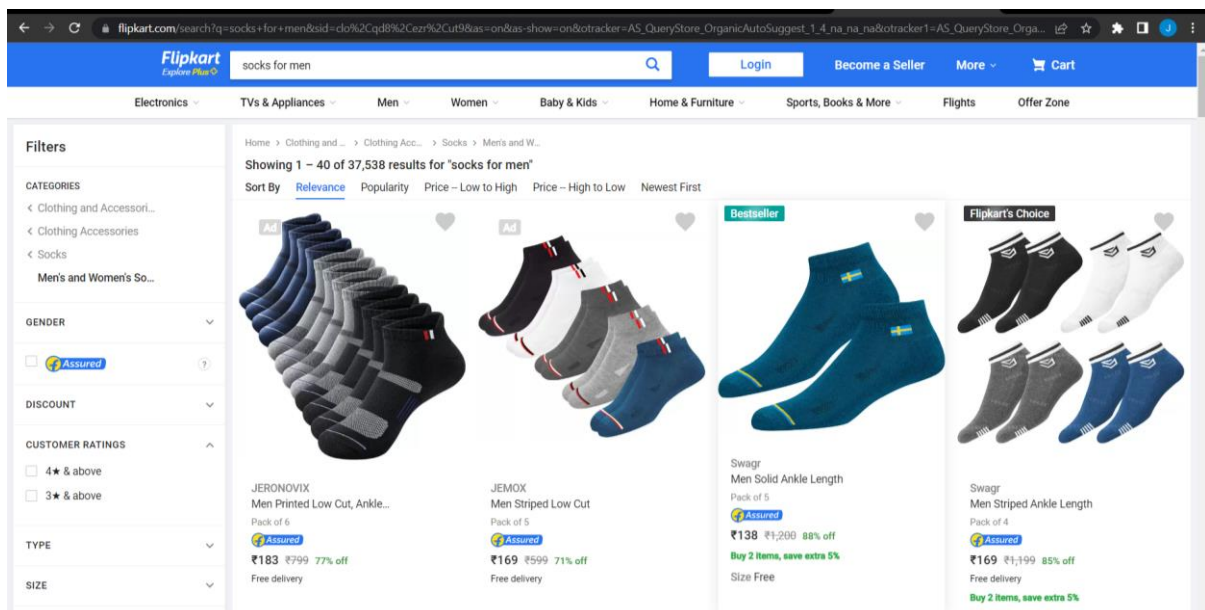
OUTPUT:

Q.NO:3.

```java
package com.Selenium.Test.selenium1;

import java.util.List;

import org.openqa.selenium.By;

import org.openqa.selenium.JavascriptExecutor;

import org.openqa.selenium.Keys;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.WebElement;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

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

import io.github.bonigarcia.wdm.WebDriverManager;

public class Q3 {

public static void main( String[] args ) throws InterruptedException

{

WebDriverManager.chromedriver().setup();

ChromeOptions co = new ChromeOptions();

co.addArguments("--remote-allow-origins=*");

WebDriver driver=new ChromeDriver(co);

driver.get("https://www.flipkart.in/ref=nav_logo");

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

String title=driver.getTitle();

System.out.println(title);

if(title.equals("Online Shopping site in India: Shop Online for Mobiles,
Books, Watches, Shoes and More - flipkart.in")) {

System.out.println("Verified title of the page");
```

```java
}else {

System.out.println("Title not matched");

}

driver.findElement(By.id("nav-link-accountList")).click();

driver.findElement(By.id("ap_email")).sendKeys("727721euit061@gmail.com");

driver.findElement(By.id("ap_email")).sendKeys(Keys.ENTER);

driver.findElement(By.id("ap_password")).sendKeys("raam2003*");

driver.findElement(By.id("ap_password")).sendKeys(Keys.ENTER);

Thread.sleep(2000);

String name=driver.findElement(By.id("nav-link-accountList-nav-line-1")).getText();

if(name.equals("Hello, Jyothiraaam")) {

System.out.println("Successfully, signed in");

}else {

System.out.println("Sign in failed");

}

System.out.println("Testing Ended");

driver.quit();

}

}
```

OUTPUT: