CIA 1-SOFTWARE TESTING USING SELENIUM

1.

```java
package com.CIA1;
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;

public class Q1
{
    public static void main( String[] args ) throws InterruptedException
    {
        ChromeOptions co = new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup();
        WebDriver driver = new ChromeDriver(co);
        driver.get("https://www.amazon.in/ASUS-15-6-inch-GeForce-Windows-FA506IHRZ-HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6c1a28b8_61");
        driver.manage().window().maximize();
        String title = driver.getTitle();
        String etitle = "ASUS TUF Gaming A15, 15.6-inch (39.62 cms) FHD 144Hz, AMD Ryzen 5 4600H, 4GB NVIDIA GeForce GTX 1650, Gaming Laptop (8GB/512GB SSD/Windows 11/Black/2.3 Kg), FA506IHRZ-HN111W : Amazon.in: Computers & Accessories";
        System.out.println(title);
        if(title.equals(etitle)) {
            System.out.println("Title is matching");
        }
        else {
            System.out.println("Title Mismatch");
        }
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
        Thread.sleep(5000);
        Boolean present = driver.findElement(By.xpath("//*[@id=\"attach-close_sideSheet-link\"]")).isDisplayed();
        System.out.println("Is item added to cart:" + present);

        driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atch_dss_cart?");
        Thread.sleep(5000);

        driver.findElement(By.xpath("//*[@value=\"Delete\"]")).click();
        Thread.sleep(2000);
        String removeText = driver.findElement(By.xpath("//*[@id=\"sc-active-cart\"]/div/div[1]/div/h1")).getText();
        String extext = "Your Amazon Cart is empty.";
        if(removeText.equals(extext)) {
            System.out.println("Product is removed");
        }
```
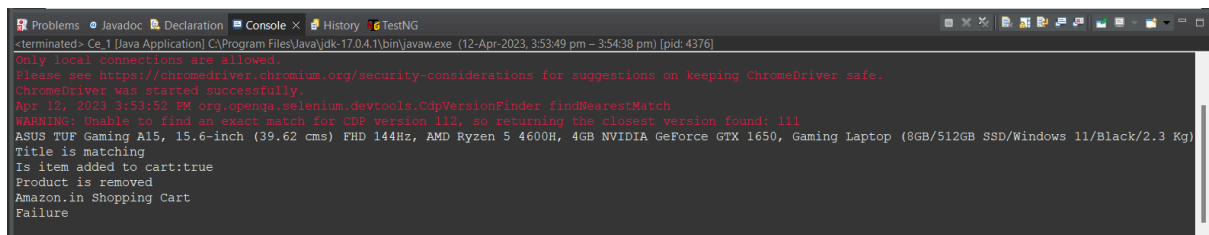
```
                driver.get("https://www.amazon.in/ASUS-15-6-inch-
GeForce-Windows-FA506IHRZ-
HN111W/dp/B0B5DZTNZQ?ref_=Oct_DLandingS_D_6c1a28b8_61");
                driver.findElement(By.xpath("//*[@id=\"add-to-cart-
button\"]")).click();
                Thread.sleep(2000);

driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atch_dss_cart?")
;
                Thread.sleep(5000);
                driver.findElement(By.xpath("//*[@id=\"a-autoid-0-
announce\"]")).click();

driver.findElement(By.xpath("//*[@id=\"quantity_2\"]")).click();
                Thread.sleep(2000);

driver.findElement(By.xpath("//*[@name=\"proceedToRetailCheckout\"] "));
                Thread.sleep(1000);
                String sign = driver.getTitle();
                System.out.println(sign);
                String esign = "Amazon Sign In";
                if(sign.equals(esign)) {
                    System.out.println("Success");
                }
                else {
                    System.out.println("Failure");
                }


        }

}
```

OUTPUT:

Q2.

```java
package com.CIA1;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;

public class Q2 {
    public static void main(String[] args) throws InterruptedException {
        // Open the Amazon website
        System.setProperty("webdriver.chrome.driver",
"path/to/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().window().maximize();
        driver.get("https://www.amazon.com/");
```

```java
        // Verify that the user can search any product on website and the
corresponding search product details needs to be displayed
        WebElement searchBox =
driver.findElement(By.id("twotabsearchtextbox"));
        searchBox.sendKeys("iPhone");
        WebElement searchButton = driver.findElement(By.id("nav-search-
submit-button"));
        searchButton.click();

        // Print minimum 5 Names of the products displayed on the webpage
        System.out.println("Product Names:");
        for (int i = 1; i <= 5; i++) {
            WebElement productName =
driver.findElement(By.xpath("(//span[@class='a-size-base-plus a-color-base
a-text-normal'])[" + i + "]"));
            System.out.println(productName.getText());
        }

        // Verify that the user can filter the search results by category,
price, and other parameters
        WebElement categoryDropdown =
driver.findElement(By.id("searchDropdownBox"));
        categoryDropdown.click();
        WebElement electronicsOption =
driver.findElement(By.xpath("//option[contains(text(), 'Electronics')]"));
        electronicsOption.click();
        WebElement sortDropdown =
driver.findElement(By.xpath("//span[@class='a-dropdown-label']"));
        sortDropdown.click();
        WebElement priceHighToLowOption =
driver.findElement(By.xpath("//a[contains(text(), 'Price: High to
Low')]"));
        priceHighToLowOption.click();

        // Close the browser
        Thread.sleep(5000);
        driver.quit();
    }
}
```

OUTPUT:

Q3.

package com.test.CA1;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;

```java
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 Ce_3 {

        public static void main(String[] args) {

                ChromeOptions co=new ChromeOptions();
                co.addArguments ("--remote-allow-origins=*");
                WebDriverManager.chromedriver().setup ();
                WebDriver driver=new ChromeDriver(co);
                driver.get ("https://www.amazon.in/");
                driver.manage().window().maximize() ;
                String currentTitle=driver.getTitle();
                System.out.println(currentTitle);
                String expectedTitle="Online Shopping site in India: Shop Online for Mobiles, Books,
Watches, Shoes and More - Amazon.in";
                if(currentTitle.equals(expectedTitle)) {
                        System.out.println("Title Matched");
                }
                else {
                        System.out.println("Title not Matched");
                }
                driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();
                WebElement txtBoxl=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
                txtBoxl.sendKeys("9677904185");
                driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
                WebElement txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"));
                txtBox2.sendKeys("shankar@3002");
                driver.findElement(By.xpath("//*[@id=\"signInSubmit\"]")).click();

                driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();
                driver.findElement(By.xpath("//*[@id=\"a-
page\"]/div[2]/div/div[2]/div[1]/a/div/div")).click();
                driver.findElement(By.xpath("//*[@id=\"a-autoid-2-announce\"]")).click();
                driver.findElement(By.xpath("//*[@id=\"ordersInPackage-
container\"]/div/div/a[1]")).click();
```

OUTPUT: