

CA 1 – Web Testing using Selenium

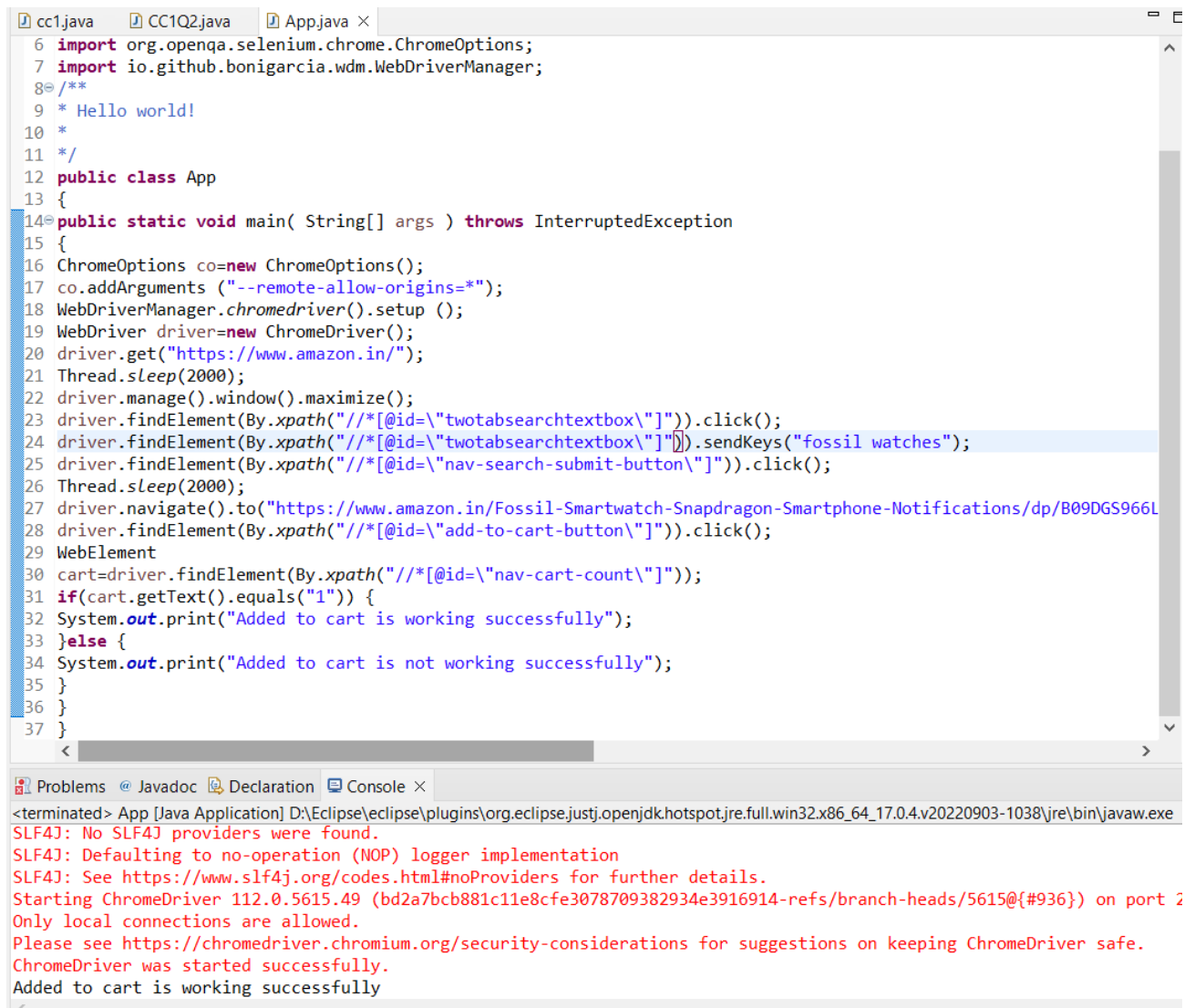
1.)

i.)

Code:

```
package com.selenium.Cse1;
import org.openqa.selenium.By;
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;
/**
 * Hello world!
 *
 */
public class App
{
    public static void main( String[] args ) throws InterruptedException
    {
        ChromeOptions co=new ChromeOptions();
        co.addArguments ("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup ();
        WebDriver driver=new ChromeDriver();
        driver.get("https://www.amazon.in/");
        Thread.sleep(2000);
        driver.manage().window().maximize();
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("fossil
watches");
        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
        Thread.sleep(2000);
        driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-Snapdragon-Smartphone-
Notifications/dp/B09DGS966L/ref=sr_1_25?crid=2LOQNXJII74SZ&keywords=fossil+watches
&qid=1681295284&srefix=fossil+watche%2Caps%2C405&sr=8-25") ;
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
        WebElement
        cart=driver.findElement(By.xpath("//*[@id=\"nav-cart-count\"]"));
        if(cart.getText().equals("1")) {
            System.out.print("Added to cart is working successfully");
        }else {
            System.out.print("Added to cart is not working successfully");
        }
    }
}
```

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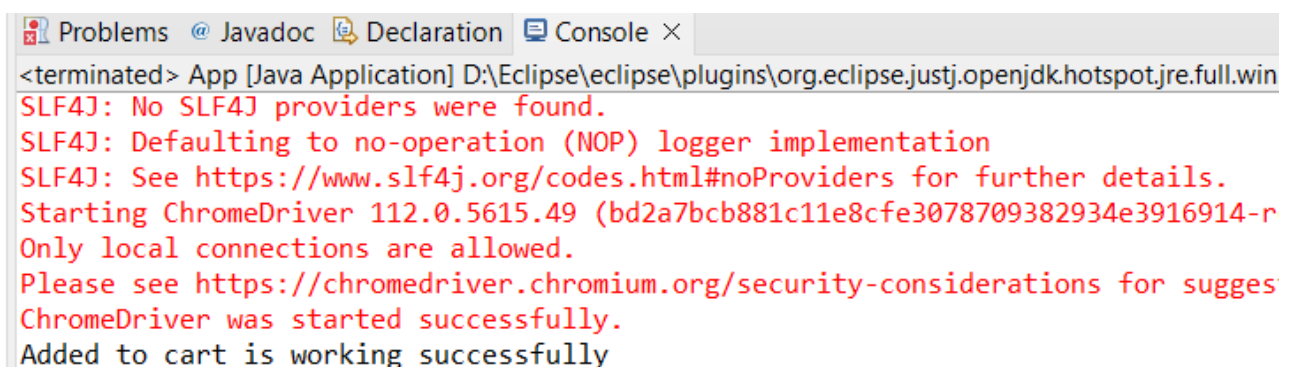
OUTPUT:

The screenshot shows the Eclipse IDE with a Java project. The main editor displays the code for `App.java`, which uses Selenium WebDriver to interact with the Amazon website. The code includes imports for `ChromeOptions` and `WebDriverManager`, and a `main` method that sets up the driver, navigates to the Amazon page, clicks the search button, enters 'fossil watches', clicks the search button, navigates to the product page, and clicks the 'add to cart' button. It then checks if the cart count is '1' and prints a message.

```
6 import org.openqa.selenium.chrome.ChromeOptions;
7 import io.github.bonigarcia.wdm.WebDriverManager;
8 /**
9  * Hello world!
10  *
11  */
12 public class App
13 {
14     public static void main( String[] args ) throws InterruptedException
15     {
16         ChromeOptions co=new ChromeOptions();
17         co.addArguments ("--remote-allow-origins=*");
18         WebDriverManager.chromedriver().setup ();
19         WebDriver driver=new ChromeDriver();
20         driver.get("https://www.amazon.in/");
21         Thread.sleep(2000);
22         driver.manage().window().maximize();
23         driver.findElement(By.xpath("//*[id=\"twotabsearchtextbox\"]")).click();
24         driver.findElement(By.xpath("//*[id=\"twotabsearchtextbox\"]")).sendKeys("fossil watches");
25         driver.findElement(By.xpath("//*[id=\"nav-search-submit-button\"]")).click();
26         Thread.sleep(2000);
27         driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-Snapdragon-Smartphone-Notifications/dp/B09DGS966L");
28         driver.findElement(By.xpath("//*[id=\"add-to-cart-button\"]")).click();
29         WebElement
30         cart=driver.findElement(By.xpath("//*[id=\"nav-cart-count\"]"));
31         if(cart.getText().equals("1")) {
32             System.out.print("Added to cart is working successfully");
33         }else {
34             System.out.print("Added to cart is not working successfully");
35         }
36     }
37 }
```

The console output shows the following messages:

```
<terminated> App [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 2
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Added to cart is working successfully
```



This screenshot shows a portion of the Eclipse console output, specifically the messages related to SLF4J and ChromeDriver. The messages are identical to the ones in the previous screenshot.

```
<terminated> App [Java Application] D:\Eclipse\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-r
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for sugges
ChromeDriver was started successfully.
Added to cart is working successfully
```

ii.)

Code:

```
package com.selenium.Cse1;

import org.openqa.selenium.By;
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 CAQ2 {
    public static void main(String[] args) throws InterruptedException {
        ChromeOptions co=new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup();
        WebDriver driver=new ChromeDriver();
        driver.get("https://www.amazon.in/");
        Thread.sleep(2000);
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("fossil watches");
        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
        Thread.sleep(2000);
        driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-Snapdragon-Smartphone-Notifications/dp/B09DGS966L/ref=sr_1_25?crid=2LOQNXJII74SZ&keywords=fossil+watches&qid=1681295284&srefix=fossil+watche%2Caps%2C405&sr=8-25");
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
        driver.navigate().to("https://www.amazon.in/gp/cart/view.html?ref_=nav_cart");
        Thread.sleep(2000);
        WebElement
        cart =
        driver.findElement(By.xpath("/html/body/div[1]/div[2]/div[3]/div[5]/div/div[2]/div[1]/div/form/div[2]/div[3]/div[4]/div/div[2]/div[1]/span[1]/span/span[1]/span/span/span/span[2]"));
        if(cart.getText().equals("0")) {
            System.out.print("Removing from cart is working successfully");
        }
        else {
            System.out.print("Removing from cart is not working successfully");
        }
    }
}
```

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OUTPUT:

The screenshot displays the Eclipse IDE with a Java project. The top editor shows the source code for `CAQ2.java`, which is a Selenium test script. The code imports necessary Selenium and WebDriverManager classes, sets up a ChromeDriver, navigates to the Amazon website, searches for 'fossil watches', and attempts to remove an item from the cart. The bottom console window shows the execution output, including SLF4J warnings and a successful ChromeDriver startup, followed by the message 'Removing from cart is not working successfully'.

```

1 package com.selenium.Cse1;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.openqa.selenium.chrome.ChromeOptions;
8 import io.github.bonigarcia.wdm.WebDriverManager;
9 public class CAQ2 {
10 public static void main(String[] args) throws InterruptedException {
11 ChromeOptions co=new ChromeOptions();
12 co.addArguments("--remote-allow-origins=*");
13 WebDriverManager.chromedriver().setup();
14 WebDriver driver=new ChromeDriver();
15 driver.get("https://www.amazon.in/");
16 Thread.sleep(2000);
17 driver.findElement(By.xpath("//*[id=\"twotabsearchtextbox\"]")).click();
18 driver.findElement(By.xpath("//*[id=\"twotabsearchtextbox\"]")).sendKeys("fossil watches");
19 driver.findElement(By.xpath("//*[id=\"nav-search-submit-button\"]")).click();
20 Thread.sleep(2000);
21 driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-Snapdragon-Smartphone-Notifications/dp/B09DGS966L");
22 driver.findElement(By.xpath("//*[id=\"add-to-cart-button\"]")).click();
23 driver.navigate().to("https://www.amazon.in/gp/cart/view.html?ref_nav_cart");
24 Thread.sleep(2000);
25 WebElement
26 cart = driver.findElement(By.xpath("/html/body/div[1]/div[2]/div[3]/div[5]/div/div[2]/div[1]/div/form/div[2]/div[1]"));
27 if(cart.getText().equals("0")) {
28 System.out.print("Removing from cart is working successfully");
29 }
30 else {
31 System.out.print("Removing from cart is not working successfully");
32 }
}

```

Problems @ Javadoc Declaration Console ×

```

<terminated> CAQ2 [Java Application] D:\Eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 70
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Removing from cart is not working successfully

```

Problems @ Javadoc Declaration Console ×

```

<terminated> CAQ2 [Java Application] D:\Eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (04
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 7079
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Removing from cart is not working successfully

```

iii.)

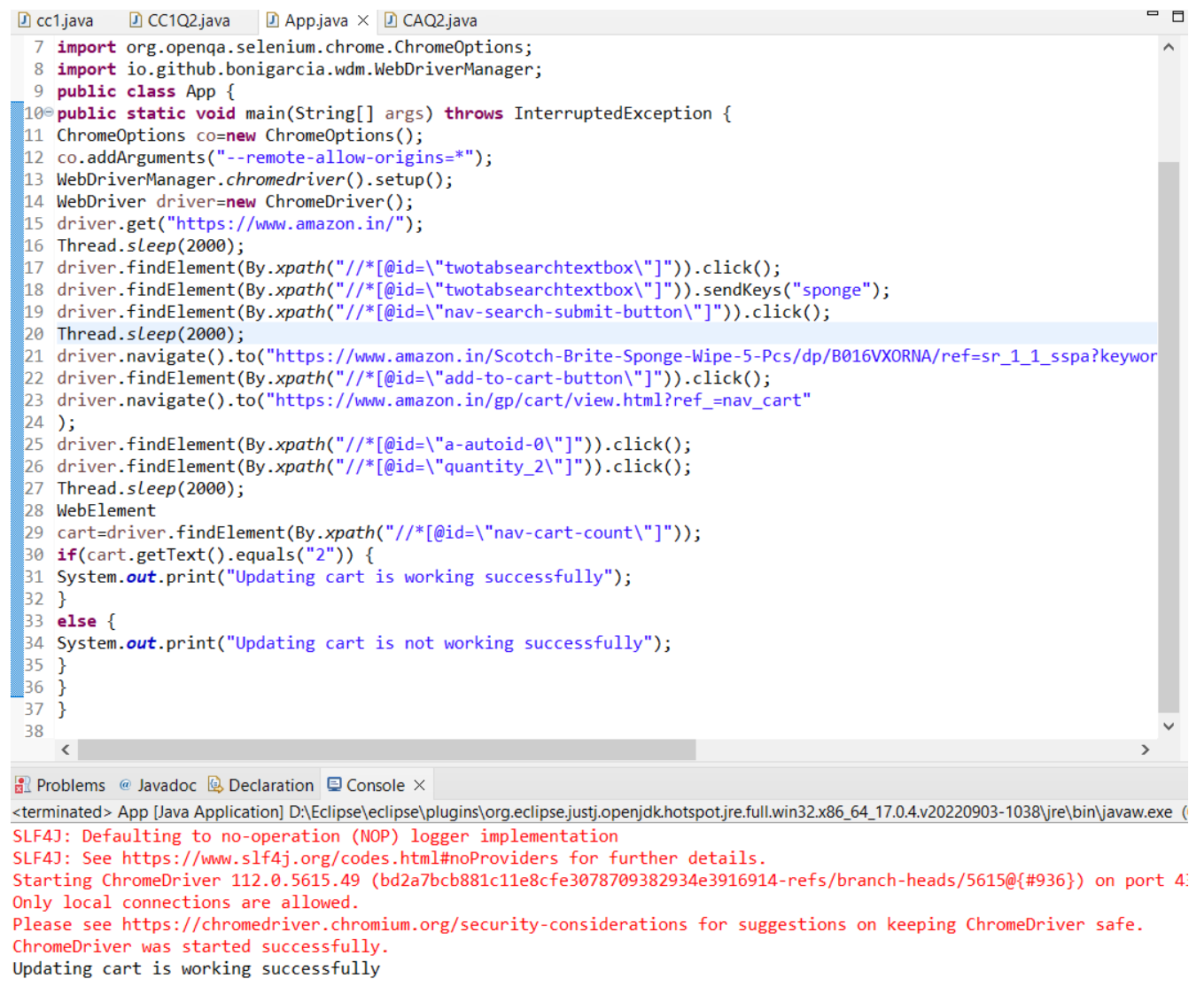
Coding:

```
package com.selenium.Cse1;
```

```
import org.openqa.selenium.By;
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 App {
public static void main(String[] args) throws InterruptedException {
    ChromeOptions co=new ChromeOptions();
    co.addArguments("--remote-allow-origins=*");
    WebDriverManager.chromedriver().setup();
    WebDriver driver=new ChromeDriver();
    driver.get("https://www.amazon.in/");
    Thread.sleep(2000);
    driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
    driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("sponge");
    driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
    Thread.sleep(2000);
    driver.navigate().to("https://www.amazon.in/Scotch-Brite-Sponge-Wipe-5-
    Pcs/dp/B016VXORNA/ref=sr_1_1_sspa?keywords=sponge&qid=1683195935&sr=8-1-
    spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1");
    driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
    driver.navigate().to("https://www.amazon.in/gp/cart/view.html?ref_=nav_cart"
    );
    driver.findElement(By.xpath("//*[@id=\"a-autoid-0\"]")).click();
    driver.findElement(By.xpath("//*[@id=\"quantity_2\"]")).click();
    Thread.sleep(2000);
    WebElement
    cart=driver.findElement(By.xpath("//*[@id=\"nav-cart-count\"]"));
    if(cart.getText().equals("2")) {
        System.out.print("Updating cart is working successfully");
    }
    else {
        System.out.print("Updating cart is not working successfully");
    }
    }
    }
}
```

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OUTPUT:

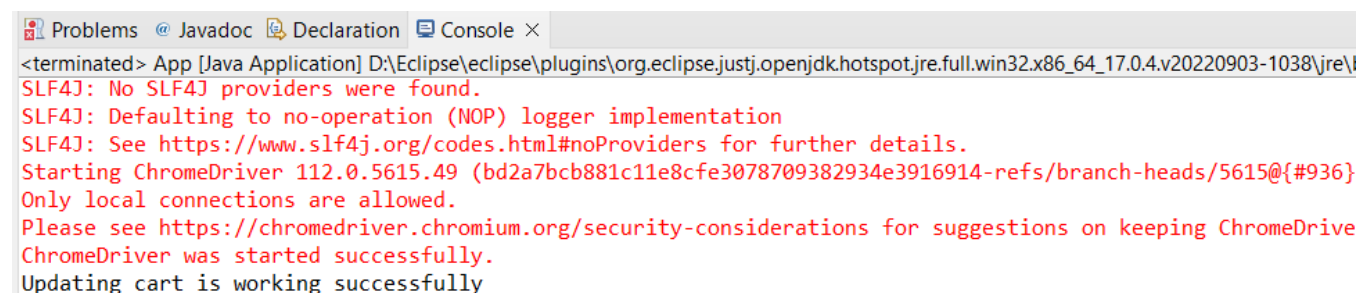


The screenshot shows the Eclipse IDE with a Java file named 'App.java' open. The code is a Selenium WebDriver script that automates a shopping cart update on Amazon. The script includes imports for Selenium and WebDriverManager, and a main method that performs the following actions:

- Configure ChromeOptions to allow remote connections.
- Set up the WebDriverManager and create a new ChromeDriver.
- Navigate to the Amazon homepage.
- Click on the search button.
- Enter 'sponge' into the search bar.
- Click on the search button.
- Navigate to the product page for 'Scotch-Brite Sponge Wipe-5-Pcs'.
- Click on the 'add-to-cart-button'.
- Navigate to the cart page.
- Click on the 'a-autoid-0' button.
- Click on the 'quantity_2' button.
- Wait for 2000ms.
- Find the 'nav-cart-count' element.
- Check if the cart count is '2'. If yes, print 'Updating cart is working successfully'. If no, print 'Updating cart is not working successfully'.

The console output shows the following messages:

```
<terminated> App [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 4:
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Updating cart is working successfully
```



The screenshot shows the Eclipse IDE with the same Java file 'App.java' open. The console output is the same as the previous screenshot, showing the successful execution of the Selenium WebDriver script and the message 'Updating cart is working successfully'.

```
<terminated> App [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\
SLF4J: No SLF4J providers were found.
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936})
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDrive
ChromeDriver was started successfully.
Updating cart is working successfully
```

iv)

Coding:

```
package com.selenium.Cse1;
```

```
import org.openqa.selenium.By;
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 App {
public static void main(String[] args) throws InterruptedException {
    ChromeOptions co=new ChromeOptions();
    co.addArguments("--remote-allow-origins=*");
    WebDriverManager.chromedriver().setup();
    WebDriver driver=new ChromeDriver();
    driver.get("https://www.amazon.in/");
    Thread.sleep(2000);
    driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
    driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("sponge");
    driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
    Thread.sleep(2000);
    driver.navigate().to("https://www.amazon.in/Scotch-Brite-Sponge-Wipe-5-
    Pcs/dp/B016VXORNA/ref=sr_1_1_sspa?crid=2Y1DVI7GWO8P&keywords=sponge&qid=1683
    196538&srefix=spon%2Caps%2C435&sr=8-1-
    spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1") ;
    driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
    driver.findElement(By.xpath("//*[@id=\"sc-buy-box-ptc-button\"]/span/input")).click();
    WebElement
    ele=driver.findElement(By.xpath("//*[@id=\"authportal-main-
    section\"]/div[2]/div/div[1]/form/div/div/div/h1"));
    String actual=ele.getText();
    System.out.println(actual);
    String expected="Sign in";
    if(actual.equals(expected)) {
        System.out.print("Navigated to signin page");
    }
}
}
```

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OUTPUT:

The screenshot displays the Eclipse IDE with a Java project. The editor shows a file named `App.java` containing Selenium WebDriver code. The code imports necessary classes, sets up a ChromeDriver, navigates to the Amazon India homepage, interacts with the search bar, and verifies the sign-in page.

```

2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.openqa.selenium.chrome.ChromeOptions;
8 import io.github.bonigarcia.wdm.WebDriverManager;
9 public class App {
10 public static void main(String[] args) throws InterruptedException {
11     ChromeOptions co=new ChromeOptions();
12     co.addArguments("--remote-allow-origins=*");
13     WebDriverManager.chromedriver().setup();
14     WebDriver driver=new ChromeDriver();
15     driver.get("https://www.amazon.in/");
16     Thread.sleep(2000);
17     driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
18     driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("sponge");
19     driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
20     Thread.sleep(2000);
21     driver.navigate().to("https://www.amazon.in/Scotch-Brite-Sponge-Wipe-5-Pcs/dp/B016VXORNA/ref=sr_1_1_sspa?crid=2");
22     driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
23     driver.findElement(By.xpath("//*[@id=\"sc-buy-box-ptc-button\"]/span/input")).click();
24     WebElement
25     ele=driver.findElement(By.xpath("//*[@id=\"authportal-main-section\"]/div[2]/div/div[1]/form/div/div/div/h1"));
26     String actual=ele.getText();
27     System.out.println(actual);
28     String expected="Sign in";
29     if(actual.equals(expected)) {
30     System.out.print("Navigated to signin page");
31     }
32 }
33 }

```

The console output shows the execution of the Java application. It includes messages from SLF4J about the logger implementation, the successful start of ChromeDriver, and the final output of the program: "Sign in" and "Navigated to signin page".

```

<terminated> App [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 4
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sign in
Navigated to signin page

```

This is another screenshot of the Eclipse IDE console, showing the same output as the previous one. It confirms the successful execution of the Selenium test script.

```

<terminated> App [Java Application] D:\Eclipse\ eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\
SLF4J: Defaulting to no-operation (NOP) logger implementation
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936})
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver
ChromeDriver was started successfully.
Sign in
Navigated to signin page

```


2.)

Coding:

```
package com.selenium.Cse1;

import java.util.List;
import org.openqa.selenium.By;
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 io.github.bonigarcia.wdm.WebDriverManager;
public class App {
    public static void main( String[] args ){
        ChromeOptions co=new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriverManager.chromedriver().setup();//setting up chrome driver
        WebDriver driver=new ChromeDriver();
        driver.get("https://www.amazon.in");
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("Shoes");
        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys(Keys.ENTER);
        String a=driver.getTitle();
        if(a.equals("Amazon.in : Shoes")) {
            System.out.println("Title is Matched\n");
        }
        else {
            System.out.println("Title is Mismatched");
        }
        List<WebElement> li=driver.findElements(By.className("s-line-clamp-2"));
        for(int i=0;i<5;i++) {
            System.out.println(li.get(i).getText());
        }
        driver.findElement(By.xpath("//*[@id=\"p_89/Samsung\"]//span/a/div/label/i")).click();
        WebElement
        c=driver.findElement(By.xpath("//*[@id=\"search\"]//div[1]/div[1]/div/span[1]/div[1]/div[2]
        /div/div/div/div/div/div[2]/div/div/div[1]/h2/a/span"));
        System.out.print("Price 2,000-10,000 & Puma: "+ c.getText());
    }
}
```

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OUTPUT:

```
1 package com.selenium.Cse1;
2
3 import java.util.List;
4 import org.openqa.selenium.By;
5 import org.openqa.selenium.Keys;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.WebElement;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.openqa.selenium.chrome.ChromeOptions;
10 import io.github.bonigarcia.wdm.WebDriverManager;
11 public class App {
12 public static void main( String[] args ){
13 ChromeOptions co=new ChromeOptions();
14 co.addArguments("--remote-allow-origins=*");
15 WebDriverManager.chromedriver().setup();//setting up chrome driver
16 WebDriver driver=new ChromeDriver();
17 driver.get("https://www.amazon.in");
18 driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("Shoes");
19 driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys(Keys.ENTER);
20 String a=driver.getTitle();
21 if(a.equals("Amazon.in : Shoes")) {
22 System.out.println("Title is Matched\n");
23 }
24 else {
25 System.out.println("Title is Mismatched");
26 }
27 List<WebElement> li=driver.findElements(By.className("s-line-clamp-2"));
28 for(int i=0;i<5;i++) {
29 System.out.println(li.get(i).getText());
30 }
31 driver.findElement(By.xpath("//*[@id=\"p_89/Samsung\"]/span/a/div/label/i")).click();
32 WebElement
```

Problems Javadoc Declaration Console ×

<terminated> App [Java Application] D:\Eclipse\workspace\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\java
ChromeDriver was started successfully.
Title is Matched

Athleo SPT-654 Men's Mesh Running/Gym/Walking/Lace-Up Sports
Athleo SPT-655 Men's Mesh Running/Gym/Walking/Lace-Up Sports
DJ with EZSUPPPORT Technology, Design for Power Walking, Running, Training | On-Trend Modern, Non-Slip Flexible
Mens Sx0614g Running Shoe
Men's OXYFIT (N) Walking Shoe

Console ×

<terminated> cia1_q2 [TestNG] C:\Program Files\Java\jdk-20\bin\javaw.exe (04-May-2023, 3:17:30 pm – 3:21:18 pm) [pid: 25640]

[RemoteTestNG] detected TestNG version 7.7.1

SLF4J: No SLF4J providers were found.

SLF4J: Defaulting to no-operation (NOP) logger implementation

SLF4J: See <https://www.slf4j.org/codes.html#noProviders> for further details.

ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger

Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 326

Only local connections are allowed.

Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.

ChromeDriver was started successfully.

Lenovo IdeaPad Slim 3 Intel Core i5 11th Gen 15.6 inches (39.62cm) FHD Thin & Light Business Laptop (8GB/512GB SSD/Windows 11)

Acer Aspire 5 Gaming Laptop Intel Core i5 12th gen (12-Cores) Processor (16 GB/512 GB SSD/Win11 Home/4GB Graphics/RTX 2060)

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)

Honor MagicBook 14, AMD Ryzen 5 5500U 14-inch (35.56 cm) FHD IPS Anti-Glare Thin and Light Laptop (16GB/512GB PCIe SSD/Windows 11)

ASUS Vivobook Pro 16, Intel Core i9 11th Gen, 16" (40.64 cm) FHD+ 120Hz, Thin & Light Laptop (16GB/512GB SSD/4GB RTX 3050 Ti)

Applied Filter!

Applied Filter based on Price

Applied Filter based on Reviews

PASSED: com.selenium.day4_project.cia1_q2.f

Default test

Tests run: 1, Failures: 0, Skips: 0

Default suite

Total tests run: 1, Passes: 1, Failures: 0, Skips: 0

CA 1 – Web Testing using Selenium

3.)

Coding:

```
package com.selenium.Cse1;
import org.openqa.selenium.By;
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 App{

    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 txtBox1=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
        txtBox1.sendKeys("sr*****@gmail.com");
        driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
        WebElement txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"));
        txtBox2.sendKeys("*****");
        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();
    }
}
```

CA 1 – Web Testing using Selenium

OUTPUT:

```
1 package com.selenium.Cse1;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.openqa.selenium.chrome.ChromeOptions;
8
9 import io.github.bonigarcia.wdm.WebDriverManager;
10
11 public class App{
12
13     public static void main(String[] args) {
14
15         ChromeOptions co=new ChromeOptions();
16         co.addArguments("--remote-allow-origins=*");
17         WebDriverManager.chromedriver().setup();
18         WebDriver driver=new ChromeDriver(co);
19         driver.get ("https://www.amazon.in/");
20         driver.manage().window().maximize();
21         String currentTitle=driver.getTitle();
22         System.out.println(currentTitle);
23         String expectedTitle="Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and
24         if(currentTitle.equals(expectedTitle)) {
25             System.out.println("Title Matched");
26         }
27         else {
28             System.out.println("Title not Matched");
29         }
30         driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();
31         WebElement txtBox=driver.findElement(By.xpath("//*[@id=\"ap_email\"]"));
32     }
```

The screenshot displays an IDE with multiple tabs. The active tab, `cia1_q3.java`, shows the same Java code as the previous block. Below the code editor, the **Console** window shows the execution output for the `cia1_q3 [Java Application]` process. The output includes several SLF4J-related warnings, an error from StatusLogger Log4j2, and a confirmation that ChromeDriver was started successfully. The final output lines are:

```
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
```

On the right side of the IDE, the **Results of run...** panel shows a search bar and summary statistics: **Passed: 0**, **Failed: 0**, and **Tests: 0/0 M**. There is also a button labeled **All Tests** with a right-pointing arrow.