

CA-1

1)

i) CODE:

```
package com.selenium.csel;

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 CA1Q11 {

    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\"]")).cli
        ck();

        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sen
        dKeys("Hair dryer");

        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-
        button\"]")).click();
```

```
Thread.sleep(2000);

driver.navigate().to("https://www.amazon.in/dp/B0B69JYN8X/ref=s9_acs_s_bw_cg_PBNNav_3c1_w?pf_rd_m=A1K21FY43GMZF8&pf_rd_s=merchandised-search-8&pf_rd_r=715J00PD1T3PK81B35QX&pf_rd_t=101&pf_rd_p=ece9de1b-ebad-4ffc-933f-ecc692da09c6&pf_rd_i=28185942031") ;

    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 {

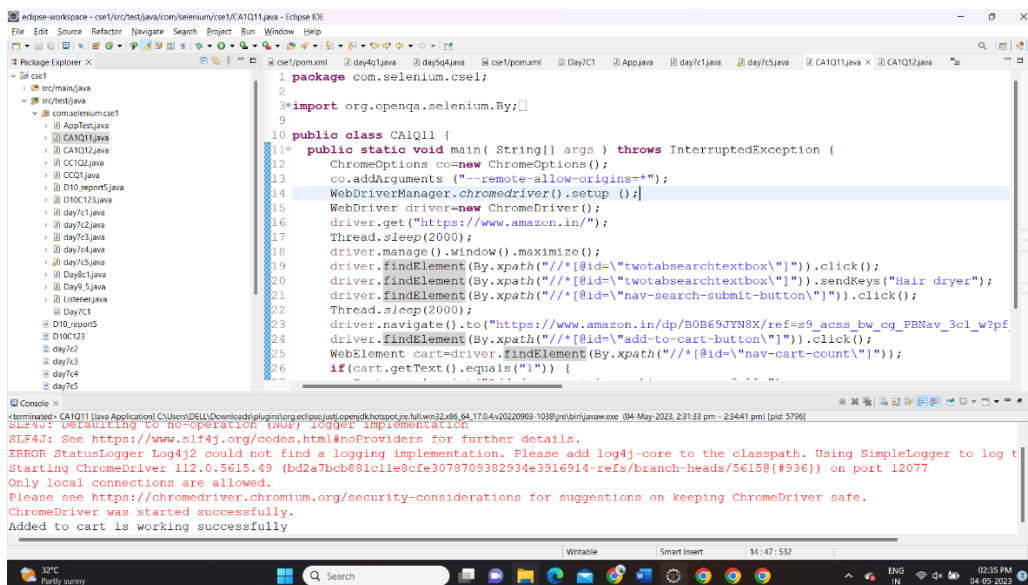
        System.out.print("Added to cart is not working successfully");

    }

}

}
```

OUTPUT:



```
1 package com.selenium.csel;
2
3 import org.openqa.selenium.By;
4
5
6
7
8
9
10 public class CA1Q11 {
11     public static void main( String[] args ) throws InterruptedException {
12         ChromeOptions co=new ChromeOptions();
13         co.addArguments ("--remote-allow-origins=*");
14         WebDriver driver=new ChromeDriver();
15         driver.get("https://www.amazon.in/");
16         Thread.sleep(2000);
17         driver.manage().window().maximize();
18         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
19         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("Hair dryer");
20         driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
21         Thread.sleep(2000);
22         driver.navigate().to("https://www.amazon.in/dp/B0B69JYN8X/ref=s9_acs_s_bw_cg_PBNNav_3c1_w?pf_rd_m=A1K21FY43GMZF8&pf_rd_s=merchandised-search-8&pf_rd_r=715J00PD1T3PK81B35QX&pf_rd_t=101&pf_rd_p=ece9de1b-ebad-4ffc-933f-ecc692da09c6&pf_rd_i=28185942031");
23         driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
24         WebElement cart=driver.findElement(By.xpath("//*[@id=\"nav-cart-count\"]"));
25         if(cart.getText().equals("1")) {
26             System.out.print("Added to cart is working successfully");
27         }else {
28             System.out.print("Added to cart is not working successfully");
29         }
30     }
31 }
```

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 to log to java.io.Console.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/56158#936) on port 12077
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

ii) **CODE:**

```
package com.selenium.csel;

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 CA1Q12 {

    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-SnapdragonSmartphone-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/span[2]"));
```

```
if(cart.getText().equals("0")) {
```

```
System.out.print("Removing from cart is working successfully");
```

```
}else {
```

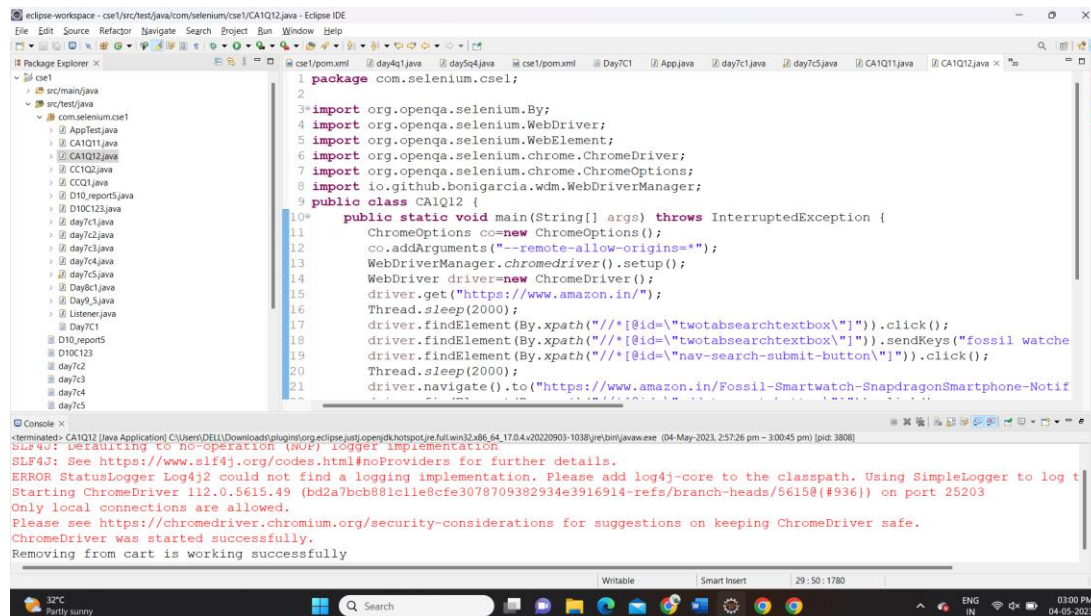
```
System.out.print("Removing from cart is not working successfully");
```

```
}
```

```
}
```

```
}
```

OUTPUT:



The screenshot shows the Eclipse IDE with a Java project named 'cse1'. The package explorer on the left shows the project structure. The main editor displays the code for 'CA1Q12.java'. The console at the bottom shows the output of the program, which includes a warning about SLF4J, an error about StatusLogger, and a message indicating that the ChromeDriver was started successfully and that removing from the cart is 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
10 public class CA1Q12 {
11     public static void main(String[] args) throws InterruptedException {
12         ChromeOptions co=new ChromeOptions();
13         co.addArguments("--remote-allow-origins=*");
14         WebDriverManager.chromedriver().setup();
15         WebDriver driver=new ChromeDriver();
16         driver.get("https://www.amazon.in/");
17         Thread.sleep(2000);
18         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
19         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("fossil watche");
20         driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
21         Thread.sleep(2000);
22         driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-SnapdragonSmartphone-Notif");
23     }
24 }
```

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 to log to
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/56158/#936) on port 25203
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 working successfully

iii)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 CA1Q13 {

    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-SnapdragonSmartphone-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_av_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 not working successfully");

}else {

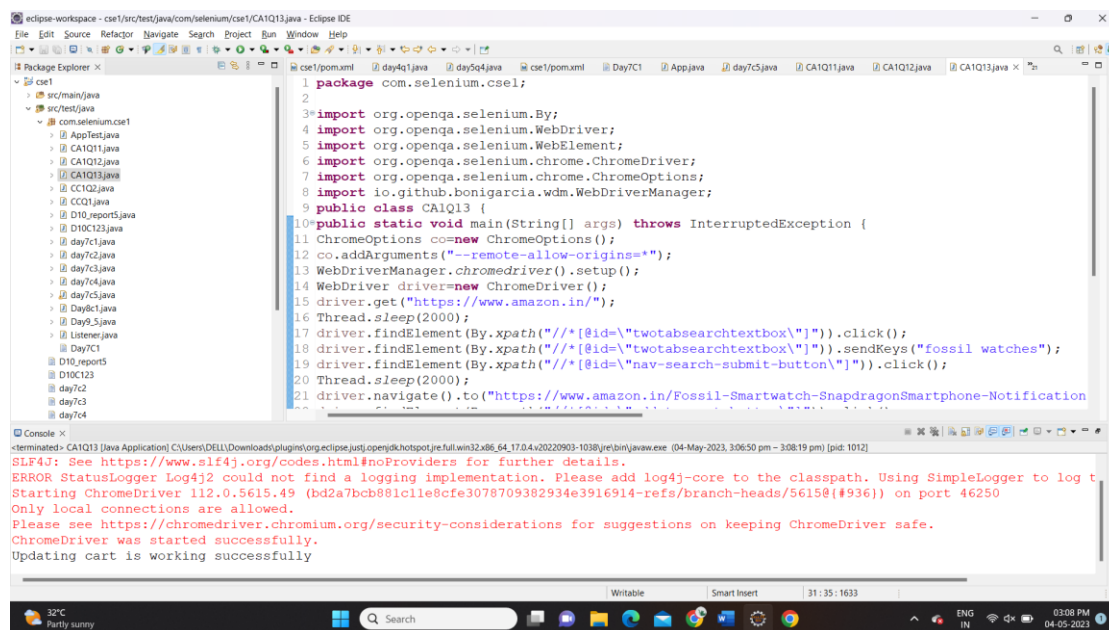
System.out.print("Updating cart is working successfully");

}

}

}
```

OUTPUT:



iv)

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 CA1Q14 {

    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-SnapdragonSmartphone-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.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)) {

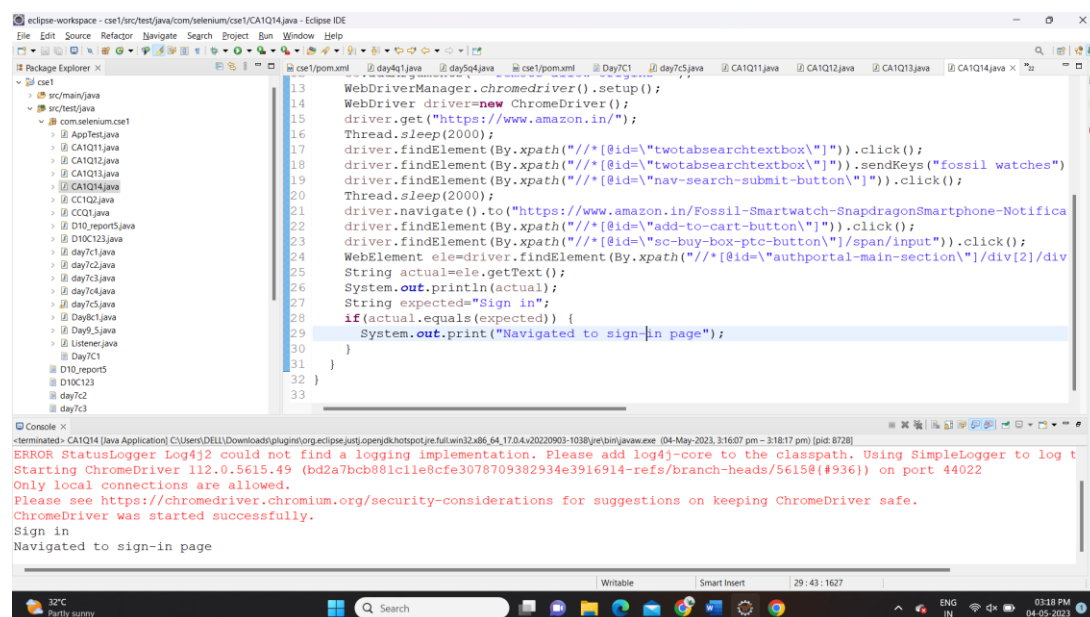
System.out.print("Navigated to sign-in page");

}

}

}
```

OUTPUT:



The screenshot shows the Eclipse IDE with a project named 'cse1'. The package explorer on the left shows the project structure. The main editor displays a Java file 'CA1Q14.java' with the following code:

```
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-SnapdragonSmartphone-Notifica
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 ele=driver.findElement(By.xpath("//*[@id=\"authportal-main-section\"]div[2]/div
25 String actual=ele.getText();
26 System.out.println(actual);
27 String expected="Sign in";
28 if(actual.equals(expected)) {
29     System.out.print("Navigated to sign-in page");
30 }
31 }
32 }
33 }
```

The console output at the bottom shows the following messages:

```
<terminated> - CA1Q14 [Java Application] C:\Users\DELL\Downloads\plugins\org.eclipse.justi.openjdk.hotspot.jre.full\win32-x86_64\17.0.4\20220903-1038\jre\bin\javaw.exe (04-May-2023, 3:16:07 pm - 3:18:17 pm) [pid: 8728]
ERROR StatusLogger Log4j2 could not find a logging implementation. Please add log4j-core to the classpath. Using SimpleLogger to log to
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 44022
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 sign-in page
```

2)

CODE:

```
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 CA1Q2 {

    public static void main( String[] args ){

        ChromeOptions co=new ChromeOptions();

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

        WebDriverManager.chromedriver().setup();

        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_36/1318505031\"] /span/a/span")).click();

    }

}
```

WebElement

```
b=driver.findElement(By.xpath("//*[@id=\"search\"]/div[1]/div[1]/div/
/span[1]/div[1]/div[2]/div/div/div/div/div/div/div/div[2]/div/div/di
v[3]/div[1]/div/div[1]/div[2]/a/span[1]/span[2]/span[2]"));
```

```
System.out.print("Price 2,000-10,000 :"+b.getText());
```

```
driver.findElement(By.xpath("//*[@id=\"p_89/Samsung\"]/span/a/div/la
bel/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/div/div[2]/div/div/div[1]/h2/
a/span"));
```

```
System.out.print("Price 2,000-10,000 & Puma: "+ c.getText());
```

```
}
```

```
}
```

OUTPUT:

```

terminated> Ques2 [Java Application] /Users/shyam.p2/pool/plugins/org.eclipse.jst.j2ee.openjdk.hotspot.jre.full.macosx.x86_64_17.0.6.v20230204-1729/jre/bin/java (12-Apr-2023, 3:16:20 pm) [p
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 (bd2a7bcb881c11e8cfe3878709382934e3916914-refs/branch-heads/5615@{#936}) on port 34495
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 12, 2023 3:16:27 PM org.openqa.selenium.devtools.CdpVersionFinder findNearestMatch
WARNING: Unable to find an exact match for CDP version 112, so returning the closest version found: 111
Title is Matched
Redmi Note 12 5G Matte Black 6GB RAM 128GB ROM | 1st Phone with 120Hz Super AMOLED and Snapdragon® 4 Gen 1 | 48MP AI Triple Camera
Apple iPhone 14 Pro (256 GB) - Silver
Samsung Galaxy M04 Dark Blue, 4GB RAM, 64GB Storage | Upto 8GB RAM with RAM Plus | MediaTek Helio P35 Octa-core Processor | 5000 mAh Battery | 13MP Dual
Redmi A1 (Light Blue, 2GB RAM, 32GB Storage) | Segment Best AI Dual Cam | 5000mAh Battery | Leather Texture Design | Android 12

```

3) CODE:

```
package com.selenium.csel;

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 CA1Q3 {

    public static void main( String[] args ){

        ChromeOptions co=new ChromeOptions();

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

        WebDriverManager.chromedriver().setup();

        WebDriver driver=new ChromeDriver();

        driver.get("https://www.amazon.in/ap/signin?openid.pape.max_auth_age=0&openid.return_to=https%3A%2F%2Fwww.amazon.in%2F%3Fref_%3Dnav_ya_signin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.assoc_handle=inflex&openid.mode=checkid_setup&openid.claimed_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0&");

        driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).sendKeys("8606305345");

        driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"ap_password\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"ap_password\"]")).sendKeys("lakshmikripa");

        driver.findElement(By.xpath("//*[@id=\"signInSubmit\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"nav-link-accountList\"]")).click();

        WebElement acc=driver.findElement(By.xpath("//*[@id=\"a-page\"]/div[2]/div/div[1]/h1"));

        String actual=acc.getText();

        String expected="Your Account";

        if(actual.equals(expected)) {

            System.out.println("Your Account page is displayed");

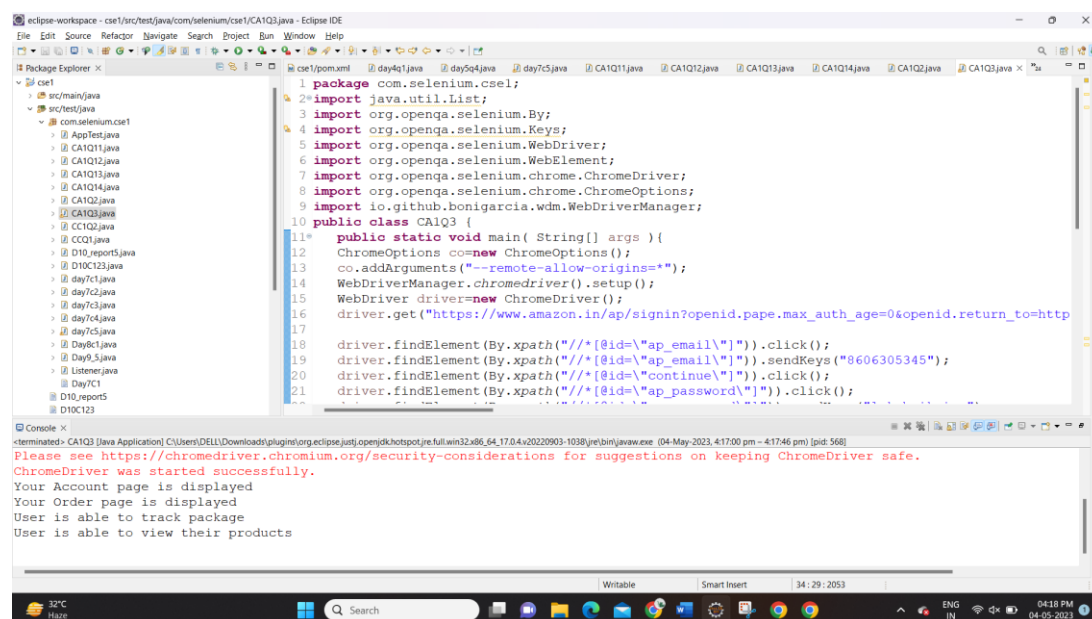
        }

    }

}
```

```
driver.findElement(By.xpath("//*[@id=\"a-  
page\"]/div[2]/div/div[2]/div[1]/a/div")).click();  
  
WebElement ord=driver.findElement(By.xpath("//*[@id=\"a-  
page\"]/section/div[1]/div[2]/div[1]/h1"));  
  
String act=ord.getText();  
  
String exp="Your Orders";  
  
if(act.equals(exp)) {  
  
System.out.println("Your Order page is displayed");  
  
}  
  
String act1=ord.getText();  
  
String exp1="Your orders";  
  
if(act.equals(exp)) {  
  
System.out.println("User is able to track package");  
  
}  
  
System.out.println("User is able to view their products");  
  
}  
  
}
```

OUTPUT:



The screenshot shows the Eclipse IDE interface. The Package Explorer on the left lists the project structure, including 'src/main/java' and 'src/test/java'. The main editor displays the Java code for the 'CAIQ3' class, which includes imports for Selenium and WebDriver, and a 'main' method that performs the actions described in the code block above. The Console window at the bottom shows the output of the program, confirming that the ChromeDriver was started successfully and that the user is able to track packages and view their products.

```
<terminated> CAIQ3 [Java Application] C:\Users\DELL\Downloads\plugins\org.eclipse.justi.openjdk hotspot.jre.full.win32.x86_64-17.0.4\20220903-1038\jre\bin\javaw.exe (04-May-2023, 4:17:00 pm) [pid: 568]  
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.  
ChromeDriver was started successfully.  
Your Account page is displayed  
Your Order page is displayed  
User is able to track package  
User is able to view their products
```