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CLASS:IT-A

**Question 1:**

**1. Verify that the user can add a product to the cart by clicking on the "Add to Cart" button on the product page.**

```
package com.selenium.test1.selenium1;

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 TASK1 {

    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.amazon.in/");

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

        String actualTitle=driver.getTitle();

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

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

```
if(actualTitle.equalsIgnoreCase(expectedTitle))

System.out.println("Title Matched");

else

System.out.println("Title didn't match");

driver.get("https://www.amazon.in/Amazon-Brand-Tealight-Candles-
Unscented/dp/B0744P71Y9/ref=sr_1_1?pd_rd_r=c06ef2b7-59da-457e-aa77-
aaf7ebd414a2&pd_rd_w=kVt55&pd_rd_wg=vANIH&pf_rd_p=4901d125-0f33-48fa-87d3-
a07efd7793cd&pf_rd_r=VSEKK1W6N5BTXD0J3B0H&qid=1681290806&refinements=p_
n_format_browse-bin%3A19560799031&s=kitchen&sr=1-1");

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

String t=driver.getTitle();

System.out.println("Added to cart");

}

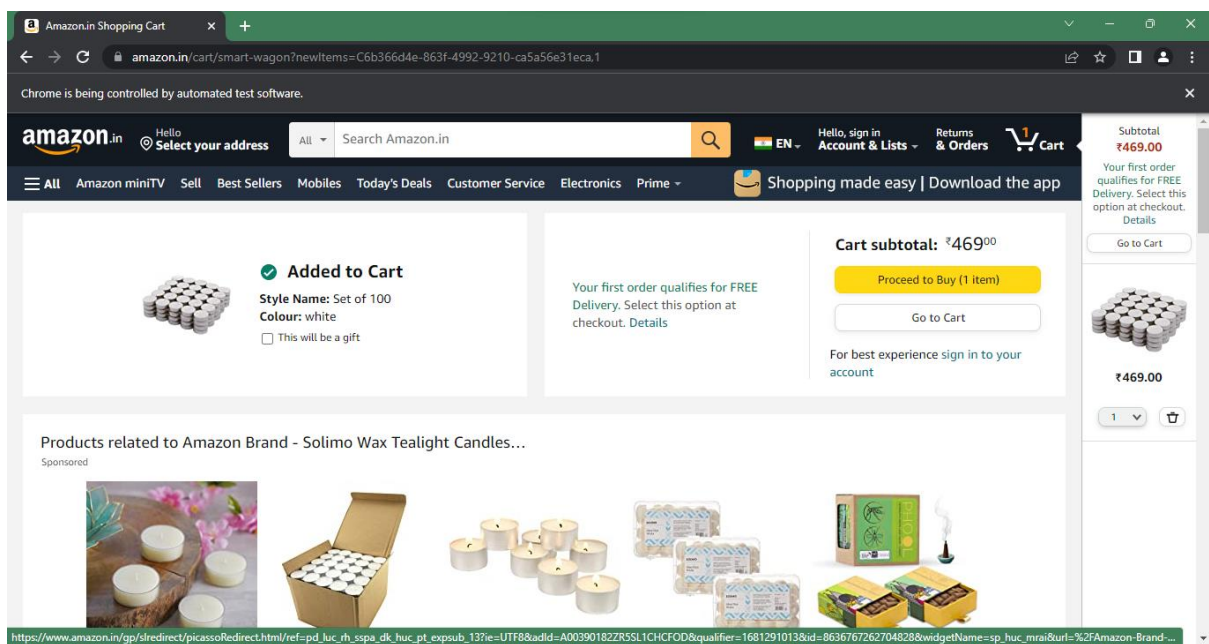
}
```

## OUTPUT:

```
eclipse-workspace - selenium1/src/main/java/com/selenium/test1/selenium1/TASK1.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Package Explorer
selenium1
  src/main/java
    com.selenium.test1
      App.java
      TASK1.java
      TASK2.java
  src/test/java
  JRE System Library [Java]
  Maven Dependencies
  src
  target
  pom.xml
  testng.xml

TASK1.java
12 {
13     WebDriverManager.chromedriver().setup();
14     ChromeOptions co=new ChromeOptions();
15     co.addArguments("--remote-allow-origins=*");
16     WebDriver driver=new ChromeDriver(co);
17     driver.get("https://www.amazon.in/");
18     driver.manage().window().maximize();
19     String actualTitle=driver.getTitle();
20     System.out.println("Page title is : " + driver.getTitle());
21     String expectedTitle = "Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in";
22     if(actualTitle.equalsIgnoreCase(expectedTitle))
23         System.out.println("Title Matched");
24     else
25         System.out.println("Title didn't match");
26     driver.findElement(By.id("add-to-cart-button")).submit();
27     String t=driver.getTitle();
28     System.out.println("Added to cart");
29 }
30 }
31 }
32 }
33 }

Problems Javadoc Declaration Console
<terminated> TASK1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (12-Apr-2023, 2:45:14 pm - 2:46:06 pm) [pid: 13568]
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 12, 2023 2:45:16 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
Page title is : Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
Added to cart
```



**2. Verify that the user can remove a product from the cart by clicking on the "Remove" button next to the product.**

```
package com.selenium.test1.selenium1;

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 TASK_1_2 {

    public static void main(String[] args) {

        // TODO Auto-generated method stub

        WebDriverManager.chromedriver().setup();

        ChromeOptions co = new ChromeOptions();

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

        WebDriver driver = new ChromeDriver(co);

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

        driver.get("https://www.amazon.in/DR-VAKU-Adapter-Charger-Black/dp/B09KN43PW1/ref=sr_1_1_sspa?crd=3GMJKRSPW2K0J&keywords=iphone+charger&qid=1681291277&sprefix=ip+hone+c%2Caps%2C432&sr=8-1-spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1");

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

        String t = driver.getTitle();

        System.out.println(t);

        // Click on Cart Icon

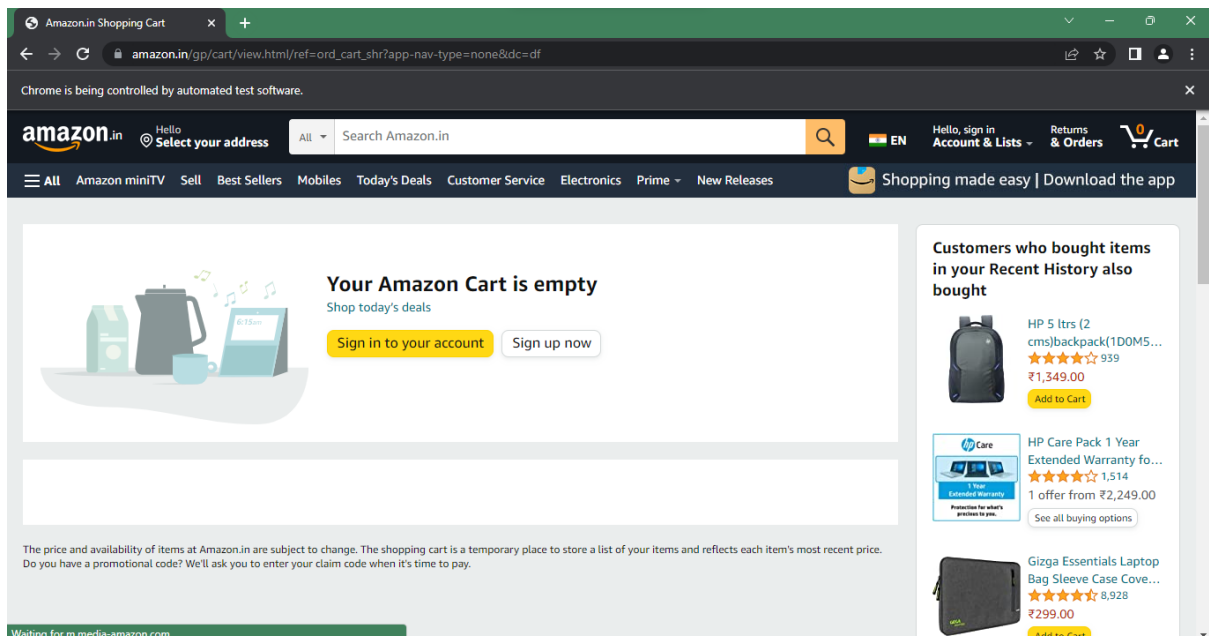
        driver.findElement(By.id("nav-cart-count-container")).click();

        // Verify Item is in Cart

        String cartTitle = driver.getTitle();
```

```
if (cartTitle.equals("Amazon.in Shopping Cart")) {  
  
    System.out.println("Item is in the Cart");  
  
    // Click on "Delete" button to remove the item from cart  
  
    driver.findElement(By.cssSelector("[value='Delete']")).click();  
  
    // Verify if the item has been removed from the cart  
  
    String emptyCartTitle = driver.getTitle();  
  
    if (emptyCartTitle.equals("Amazon.in Shopping Cart")) {  
  
        System.out.println("Item is NOT removed from the Cart");  
  
    } else {  
  
        System.out.println("Item is removed from the Cart");  
  
    }  
  
    } else {  
  
        System.out.println("Item is NOT in the Cart");  
  
    }  
  
    }  
  
}
```

## OUTPUT:



**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.**

```
package com.selenium.test1.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 TASK_1_3 {

    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.manage().window().maximize();
```

```
driver.get("https://www.amazon.in/Anne-Diamond-Analog-Womens-Watch-
AK3686BKGB/dp/B0968Q7L3M/ref=sr_1_1_sspa?crid=293FS4VHUVN6K&keywords=wa
tches&qid=1681287782&sprefix=watches%2Caps%2C323&sr=8-1-
spons&sp_csd=d2lkZ2V0TmFtZT1zcF9hdGY&psc=1");

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_SU
CCESS\"]/span")).getText();

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

System.out.println("1. Verified that Product 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"));

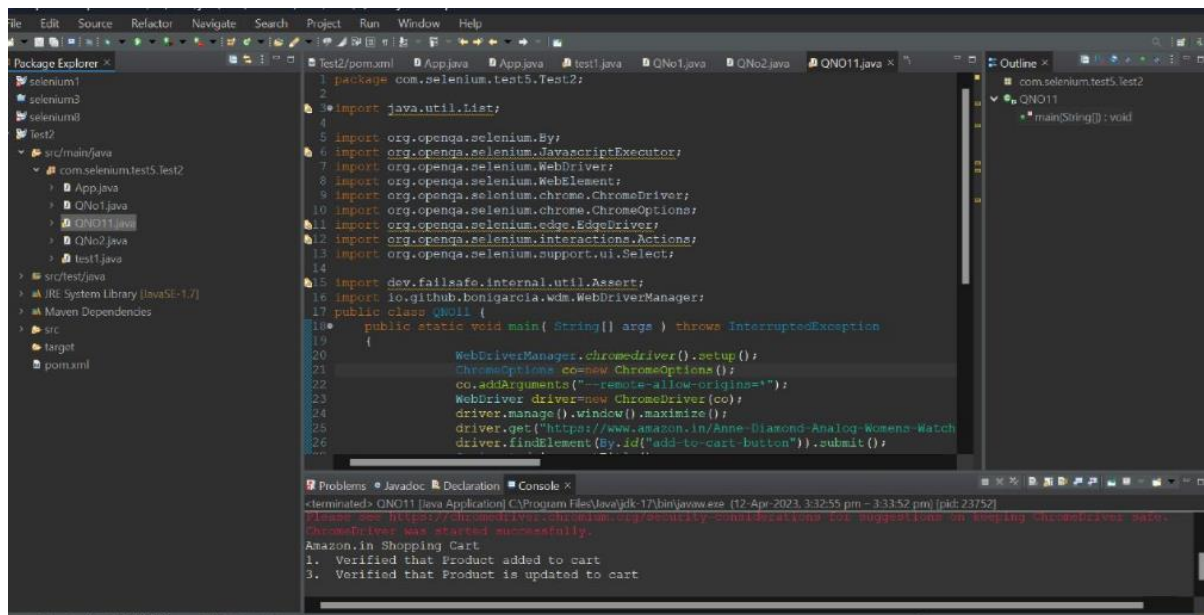
System.out.println("3. Verified that Product is updated to cart ");

    }

}
```



## OUTPUT:



The screenshot displays an IDE with the following components:

- Package Explorer:** Shows a project structure with packages `com.selenium.test5.test2` and `com.selenium.test5.QNo11`. The file `QNo11.java` is selected.
- Editor:** Contains the source code for `QNo11.java`. The code imports various Selenium and WebDriver classes and implements a `main` method that sets up a Chrome driver, navigates to an Amazon page, and verifies product details.
- Outline:** Shows the class structure of `QNo11`, including the `main` method.
- Console:** Displays the execution output, which includes a warning about ChromeDriver and a list of verification steps.

```
1 package com.selenium.test5.test2;
2
3 import java.util.List;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.JavascriptExecutor;
7 import org.openqa.selenium.WebDriver;
8 import org.openqa.selenium.WebElement;
9 import org.openqa.selenium.chrome.ChromeDriver;
10 import org.openqa.selenium.chrome.ChromeOptions;
11 import org.openqa.selenium.edge.EdgeDriver;
12 import org.openqa.selenium.interactions.Actions;
13 import org.openqa.selenium.support.ui.Select;
14
15 import dev.failsafe.internal.util.Assert;
16 import io.github.bonigarcia.wdm.WebDriverManager;
17 public class QNo11 {
18     public static void main( String[] args ) throws InterruptedException
19     {
20         WebDriverManager.chromedriver().setup();
21         ChromeOptions co=new ChromeOptions();
22         co.addArguments("--remote-allow-origins=*");
23         WebDriver driver=new ChromeDriver(co);
24         driver.manage().window().maximize();
25         driver.get("https://www.amazon.in/Anne-Diamond-Analog-Womens-Watch");
26         driver.findElement(By.id("add-to-cart-button")).submit();
27     }
28 }
```

terminated: QNo11 [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe (12-Apr-2023, 3:32:55 pm - 3:33:52 pm) [pid: 23752]  
Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping Chromedriver safe.  
Chromedriver was started successfully.  
Amazon.in Shopping Cart  
1. Verified that Product added to cart  
3. Verified that Product is updated to cart

## Question 2:

1. Verify that the user can search any product on website and the corresponding search product details needs to be displayed

```
package com.selenium.test1.selenium1;

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 TASK_2_1 {

    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.amazon.in/");

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

        String actualTitle=driver.getTitle();

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

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

        if(actualTitle.equalsIgnoreCase(expectedTitle))
```

```
System.out.println("Title Matched");

else

System.out.println("Title didn't match");

WebElement txt1=driver.findElement(By.id("twotabsearchtextbox"));

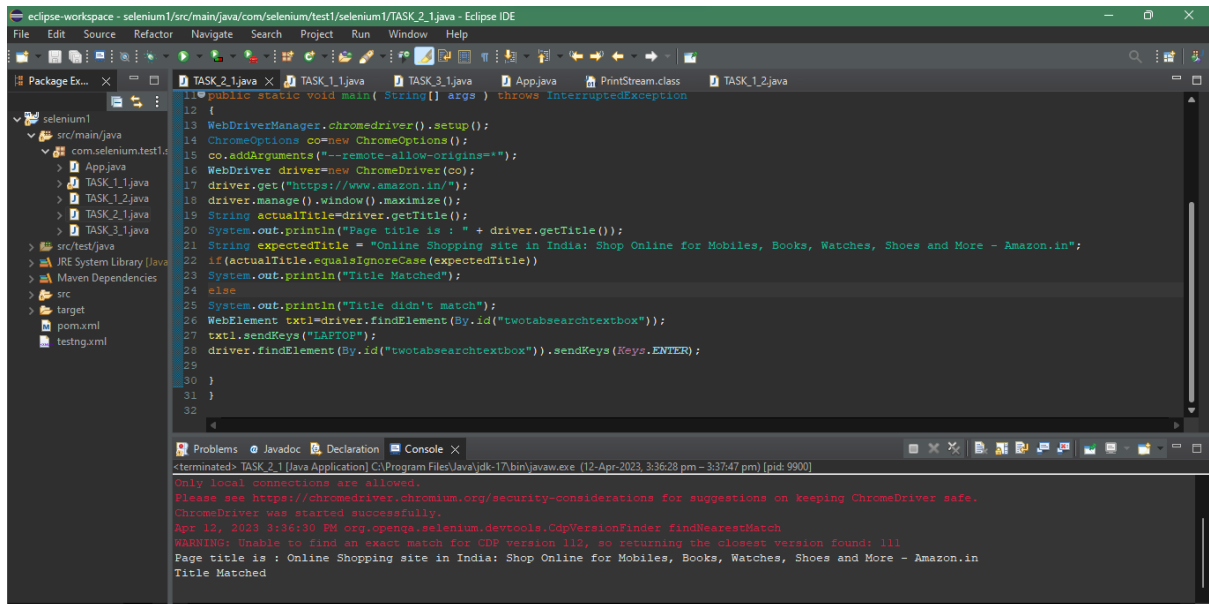
txt1.sendKeys("LAPTOP");

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

}

}
```

## OUTPUT:

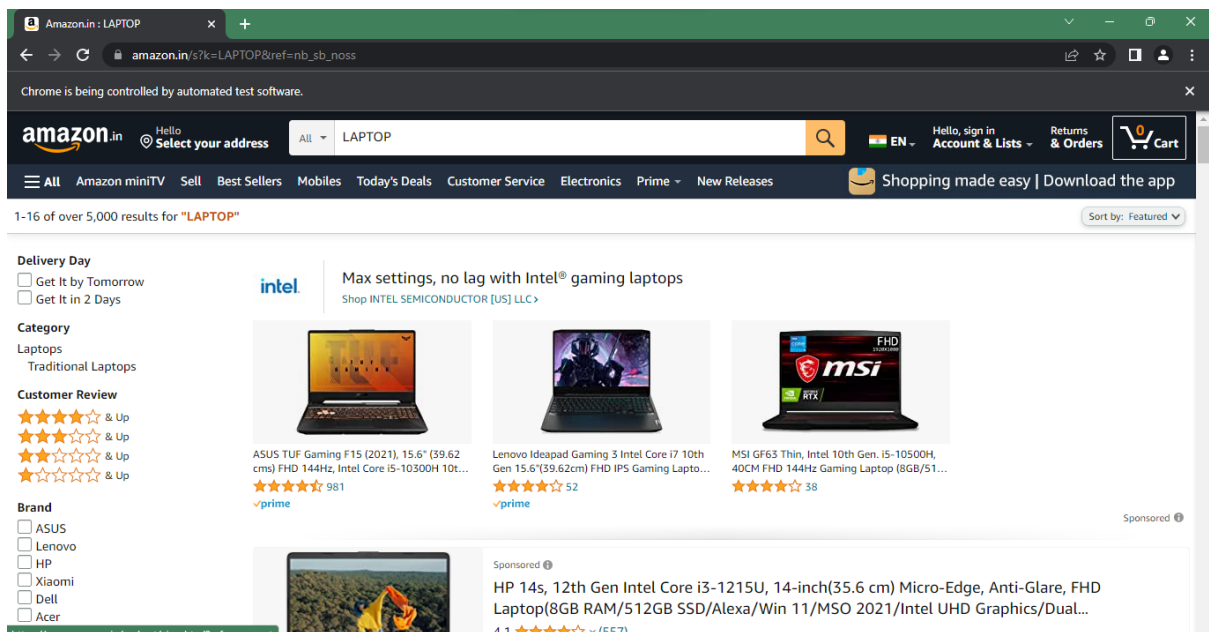


The screenshot shows the Eclipse IDE with a Selenium test project. The code in `TASK_2_1.java` is as follows:

```
11 public static void main( String[] args ) throws InterruptedException {
12     {
13         WebDriverManager.chromedriver().setup();
14         ChromeOptions co=new ChromeOptions();
15         co.addArguments("--remote-allow-origins=*");
16         WebDriver driver=new ChromeDriver(co);
17         driver.get("https://www.amazon.in/");
18         driver.manage().window().maximize();
19         String actualTitle=driver.getTitle();
20         System.out.println("Page title is : " + driver.getTitle());
21         String expectedTitle = "Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in";
22         if(actualTitle.equalsIgnoreCase(expectedTitle))
23             System.out.println("Title Matched");
24         else
25             System.out.println("Title didn't match");
26         WebElement txt1=driver.findElement(By.id("twotabsearchtextbox"));
27         txt1.sendKeys("LAPTOP");
28         driver.findElement(By.id("twotabsearchtextbox")).sendKeys(Keys.ENTER);
29     }
30 }
31 }
32 }
```

The console output shows the following messages:

```
<terminated> TASK_2-1 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (12-Apr-2023 3:36:28 pm - 3:37:47 pm) [pid: 9900]
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 3:36:30 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
Page title is : Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
```



## 2. Print minimum 5 Names of the products displayed on the webpage

```
package com.selenium.test1.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 io.github.bonigarcia.wdm.WebDriverManager;

public class TASK_2_2 {

    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.amazon.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=6zviiy&pd_rd_r=1f436e7b-ab36-4c27-9e50-8f8c69db422a&ref_=pd_gw_unk");

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

        JavascriptExecutor js=(JavascriptExecutor) driver;

        js.executeScript("window.scrollTo(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");

}

List<WebElement> li=driver.findElements(By.xpath("//*[@id=\"octopus-dlp-asin-stream\"]/ul/li[3]/span/div/div[2]/div[1]/a"));

for(WebElement link:li) {

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

}

driver.navigate().back();

driver.navigate().forward();

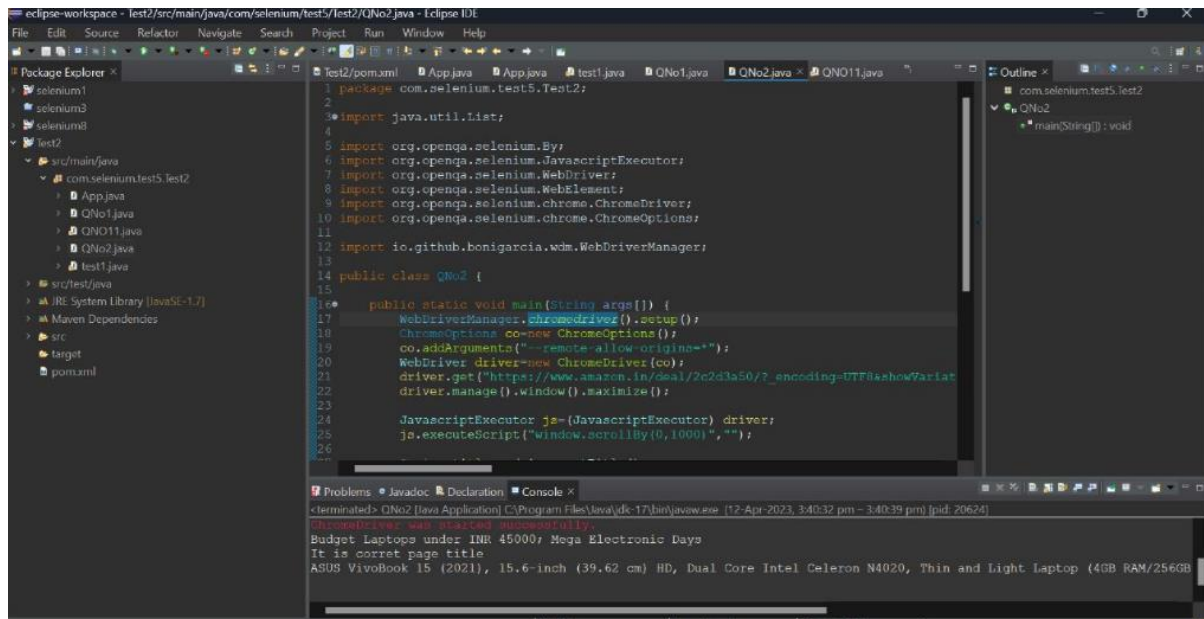
driver.navigate().refresh();

driver.quit();

}

}
```

## OUTPUT:



```
1 package com.selenium.test5.Test2;
2
3 import java.util.List;
4
5 import org.openqa.selenium.By;
6 import org.openqa.selenium.JavascriptExecutor;
7 import org.openqa.selenium.WebDriver;
8 import org.openqa.selenium.WebElement;
9 import org.openqa.selenium.chrome.ChromeDriver;
10 import org.openqa.selenium.chrome.ChromeOptions;
11
12 import io.github.bonigarcia.wdm.WebDriverManager;
13
14 public class QNo2 {
15
16     public static void main(String args[]) {
17         WebDriverManager.chromedriver().setup();
18         ChromeOptions co=new ChromeOptions();
19         co.addArgument("--remote-allow-origins=*");
20         WebDriver driver=new ChromeDriver(co);
21         driver.get("https://www.amazon.in/deal/2c2d3a50/?_encoding=UTF8&showVariat
22         driver.manage().window().maximize();
23
24         JavascriptExecutor js=(JavascriptExecutor) driver;
25         js.executeScript("window.scrollTo(0,1000)","");
26
27     }
28 }
```

terminated: QNo2 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe [12-Apr-2023, 3:40:32 pm - 3:40:39 pm] [pid: 20624]

Chromedriver was started successfully.

Budget Laptops under INR 45000; Mega Electronic Days

It is corret page title

ASUS VivoBook 15 (2021), 15.6-inch (39.62 cm) HD, Dual Core Intel Celeron N4020, Thin and Light Laptop (4GB RAM/256GB

**3. Verify that the user can filter the search results by category, price, and other parameters.**

```
package com.selenium.test1.selenium1;

import java.util.List;

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 TASK_2_3 {

    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.amazon.in/");

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

        String actualTitle=driver.getTitle();

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

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

        if(actualTitle.equalsIgnoreCase(expectedTitle))

        System.out.println("Title Matched");
```



```
else

System.out.println("Title didn't match");

driver.findElement(By.id("a-autoid-0-announce")).click();

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());

}

System.out.println("User is able to filter by search");

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

driver.findElement(By.id("a-autoid-0-announce")).click();

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());

}

System.out.println("User is able to filter by search");

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

}

}
```

### **Question 3:**

```
package com.selenium.test1.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;

/**
 * Hello world!
 *
 */

public class TASK_3

{

    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.amazon.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 - Amazon.in")) {

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

}else {

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

}

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

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

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

driver.findElement(By.id("ap_password")).sendKeys("kannan52+");

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, Deeoak")) {

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

}else {

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

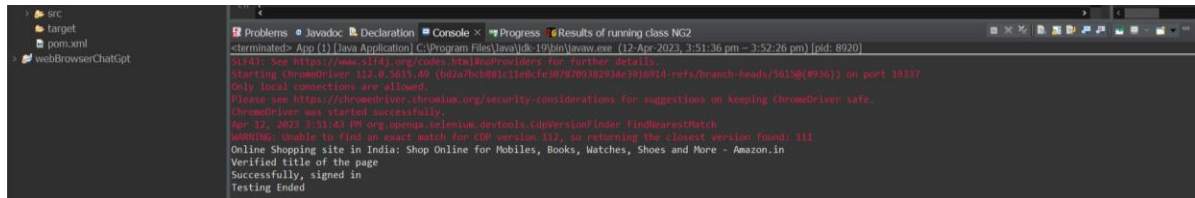
}

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

driver.quit();
```

```
}  
  
}
```

## OUTPUT:



```
Problems Javadoc Declaration Console x Progress Results of running class NG2  
<terminated> App (1) [Java Application] C:\Program Files\Java\jdk-19\bin\javaw.exe (12-Apr-2023, 3:51:36 pm - 3:52:26 pm) [pid: 8920]  
SLF4J: See https://www.slf4j.org/codes.html#noProviders for further details.  
Starting ChromeDriver 112.0.5615.49 (642a7c1081c116b0c116b0c10293de7910914-cdf/branch-heads/5615@#936) on port 19337.  
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 3:51:43 PM org.openqa.selenium.devtools.cdpversionfinder.FindNearestPatch  
WARNING: Unable to find an exact match for CDP version 112, -> returning the closest version found: 111  
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in  
Verified title of the page  
Successfully, signed in  
Testing Ended
```