

SOFTWARE TESTING CA-1

Q1:

CODE:

```
package com.selenium.testing.test1;

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 CAQ1a {
    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/Lenovo-IdeaPad-
Gaming-39-62cm-
82K201V2IN/dp/B0B7RXC1Y1/ref=sr_1_1_sspa?crid=1ADD4UB25DN4A&ke
ywords=laptops&qid=1683195740&sprefix=laptop%2Caps%2C684&sr=8-
1-spons&sp_csd=d2lkZ2V0TmFtZT1zcf9hdGY&th=1");

        driver.manage().window().maximize();
        String title = driver.getTitle();
        String etitle = "Lenovo IdeaPad Gaming 3 AMD Ryzen 7
5800H 15.6\" (39.62cm) FHD IPS 120Hz Gaming Laptop (8GB/512GB
SSD/Win 11/Office 2021/NVIDIA RTX 3050 4GB/Alexa/3 Month Game
Pass/Shadow Black/2.2Kg), 82K201V2IN : 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_atc
h_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_atc
h_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(3000);

driver.findElement(By.xpath("//*[@name=\"proceedToRetailChecko
ut\"] ")).click();
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");
}
```

```
driver.findElement(By.id("ap_email")).sendKeys("priya@gmail.com");
        driver.findElement(By.id("continue")).click();

        driver.findElement(By.id("ap_password")).sendKeys("Priya23$");
        driver.findElement(By.id("signInSubmit")).click();

        String ur = driver.getCurrentUrl();
        System.out.println("Url of the payment page :" + ur);

    }
}
```

OUTPUT:

```
eclipse-workspace - test1/src/main/java/com/selenium/testing/test1/CAQ1a.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer X Day9q1.java CCA1a.java CAQ1a.java * CAQ1b.java CAQ1c.java
20     String etitle = "Lenovo IdeaPad Gaming 3 AMD Ryzen 7 5800H 15.6\" (39.62cm) FHD IPS 120Hz";
21     System.out.println(title);
22     if(title.equals(etitle)) {
23         System.out.println("Title is matching");
24     } else {
25         System.out.println("Title Mismatch");
26     }
27     driver.findElement(By.xpath("//*[@id='add-to-cart-button']")).click();
28     Thread.sleep(5000);
29     Boolean present = driver.findElement(By.xpath("//*[@id='attach-close_sideSheet-link']"));
30     System.out.println("Is item added to cart:" + present);
31

Markers Properties Servers Data Source Explorer Snippets Terminal Console > Results of running class CAQ1a
CAQ1a (1) [Java Application] C:\Tools\elipse-jee-2022-09-R-win32-x86_64\elipse\plugins\org.eclipse.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\java
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.
Starting ChromeDriver 112.0.5615.49 (bd2a7bc81c11e8cf3078709382934e3916914-refs/branch-heads/5615)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver was started successfully.
Lenovo IdeaPad Gaming 3 AMD Ryzen 7 5800H 15.6" (39.62cm) FHD IPS 120Hz Gaming Laptop (8GB/512GB SSD)
Title is matching
Is item added to cart:true
Product is removed

16:29 04-05-2023
```

Q2:

CODE:

```
package com.selenium.testing.test1;

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 org.testng.annotations.Test;

import io.github.bonigarcia.wdm.WebDriverManager;

public class CAQ1b {
    @Test
    public void test() {

        int productCount = 0;
        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();

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

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

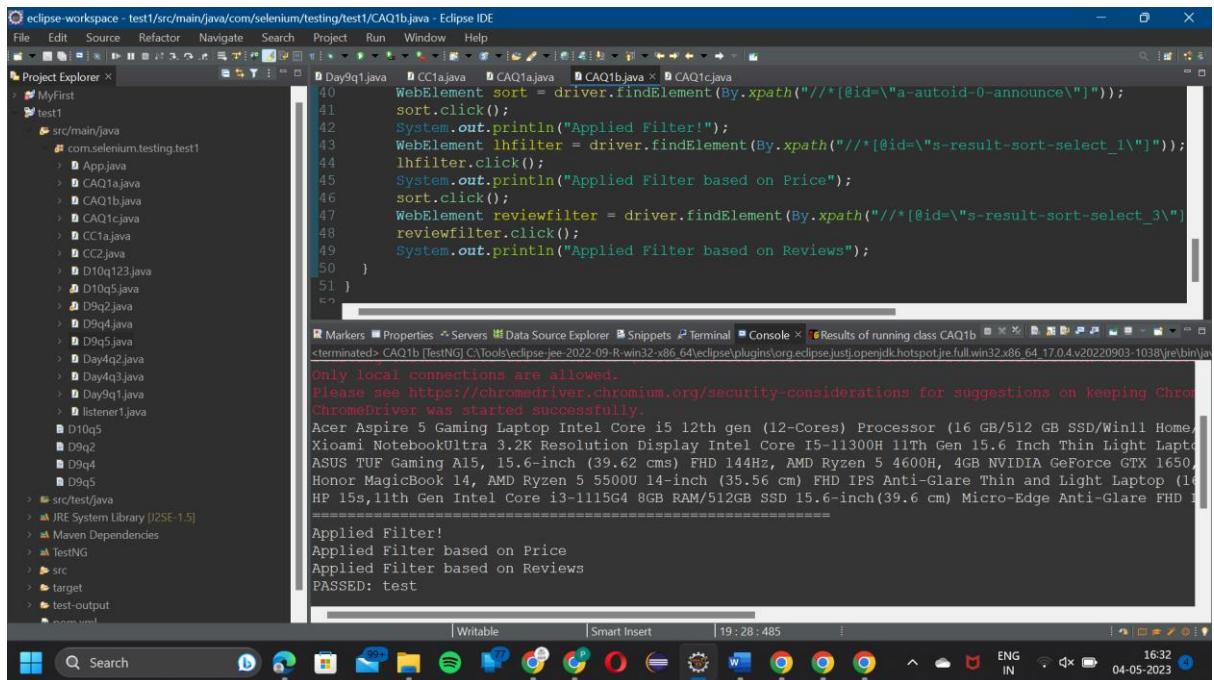
        List<WebElement> titleElements =
driver.findElements(By.xpath("//h2[@class='a-size-mini a-
spacing-none a-color-base s-line-clamp-2']"));

        for (WebElement titleElement : titleElements) {
            System.out.println(titleElement.getText());
            productCount++;
            if(productCount == 5) {
                break;
            }
        }

System.out.println("===== =====");
        WebElement sort =
driver.findElement(By.xpath("//*[@id=\"a-autoid-0-
announce\"]"));
        sort.click();
        System.out.println("Applied Filter!");
        WebElement lhfilter =
driver.findElement(By.xpath("//*[@id=\"s-result-sort-
select_1\"]"));
        lhfilter.click();
        System.out.println("Applied Filter based on Price");
        sort.click();
```

```
        WebElement reviewfilter =
driver.findElement(By.xpath("//*[@id=\"s-result-sort-
select_3\"]"));
reviewfilter.click();
System.out.println("Applied Filter based on Reviews");
}
}
```

OUTPUT:



```
File Edit Source Refactor Navigate Search Project Run Window Help
Project Explorer X
MyFirst
test1
src/main/java
com.selenium.testing.test1
App.java
CAQ1a.java
CAQ1b.java
CAQ1c.java
CC1a.java
CC2.java
D10q123.java
D10q5.java
D9q2.java
D9q4.java
D9q5.java
Day4q2.java
Day4q3.java
Day9q1.java
Day9q2.java
D10q5
D9q2
D9q4
D9q5
src/test/java
JRE System Library [J2SE-1.5]
Maven Dependencies
TestNG
src
target
test-output
src/main/java/com/sele... - Eclipse IDE
40    WebElement sort = driver.findElement(By.xpath("//*[@id=\"a-autoid-0-announce\"]"));
41    sort.click();
42    System.out.println("Applied Filter!");
43    WebElement lhfilter = driver.findElement(By.xpath("//*[@id=\"s-result-sort-select_1\"]"));
44    lhfilter.click();
45    System.out.println("Applied Filter based on Price");
46    sort.click();
47    WebElement reviewfilter = driver.findElement(By.xpath("//*[@id=\"s-result-sort-select_3\"]"));
48    reviewfilter.click();
49    System.out.println("Applied Filter based on Reviews");
50  }
51 }
```

Markers Properties Servers Data Source Explorer Snippets Terminal Console <terminated> CAQ1b [TestNG] C:\Tools\ eclipse-jee-2022-09-R-win32-x86_64\plugins\org.eclipse.jdt.openjdt.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\rebin\ja Only local connections are allowed. Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver was started successfully.

Acer Aspire 5 Gaming Laptop Intel Core i5 12th gen (12-Cores) Processor (16 GB/512 GB SSD/Win11 Home, Xiaoami NotebookUltra 3.2K Resolution Display Intel Core I5-11300H 11th Gen 15.6 Inch Thin Light Laptop, ASUS TUF Gaming A15, 15.6-inch (39.62 cms) FHD 144Hz, AMD Ryzen 5 4600H, 4GB NVIDIA GeForce GTX 1650, Honor MagicBook 14, AMD Ryzen 5 5500U 14-inch (35.56 cm) FHD IPS Anti-Glare Thin and Light Laptop (16 HP 15s, 11th Gen Intel Core i3-1115G4 8GB RAM/512GB SSD 15.6-inch(39.6 cm) Micro-Edge Anti-Glare FHD I =====

Applied Filter!

Applied Filter based on Price

Applied Filter based on Reviews

PASSED: test

Q3:

CODE:

```
package com.selenium.testing.test1;

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 CAQ1c{

    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("phoojasubramanian@gmail.com");

    driver.findElement(By.xpath("//*[@id=\"continue\"]")).cli
ck();
    WebElement
txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"
));
    txtBox2.sendKeys("Phooja2003$");

    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:

The screenshot shows the Eclipse IDE interface with the following details:

- Project Explorer:** Shows the project structure with packages like com.selenium.testing.test1 containing files such as App.java, CAQ1a.java, CAQ1b.java, CAQ1c.java, CC1a.java, CC2.java, D10q123.java, D10q5.java, D9q2.java, D9q4.java, D9q5.java, Day4q2.java, Day4q3.java, Day9q1.java, listener1.java, D10q5, D9q2, D9q4, and D9q5.
- Code Editor:** Displays Java code for a Selenium test case, specifically for class CAQ1c. The code interacts with a WebDriver to perform various actions like clicking buttons and sending keys to input fields.
- Terminal:** Shows the results of running the class CAQ1b. It includes log messages from SLF4J, an error message about StatusLogger, and a warning about ChromeDriver. It also lists online shopping sites and provides documentation for the NoSuchElementException.
- System Tray:** Shows system icons for battery, network, volume, and date/time (04-05-2023, 16:35).