

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);

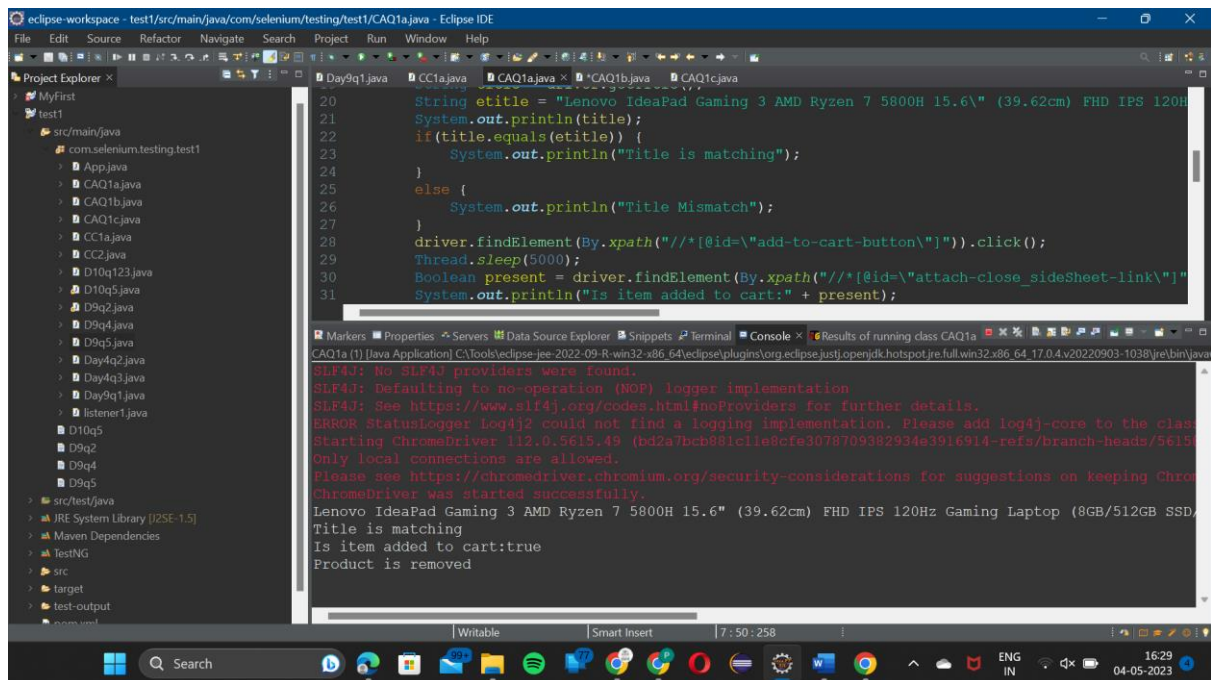
driver.get("https://www.amazon.in/gp/cart/view.html/ref=dp_atc
h_dss_cart?");
        Thread.sleep(5000);
        driver.findElement(By.xpath("//*[@id=\"a-autoid-0-
announce\"]")).click();

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:



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);

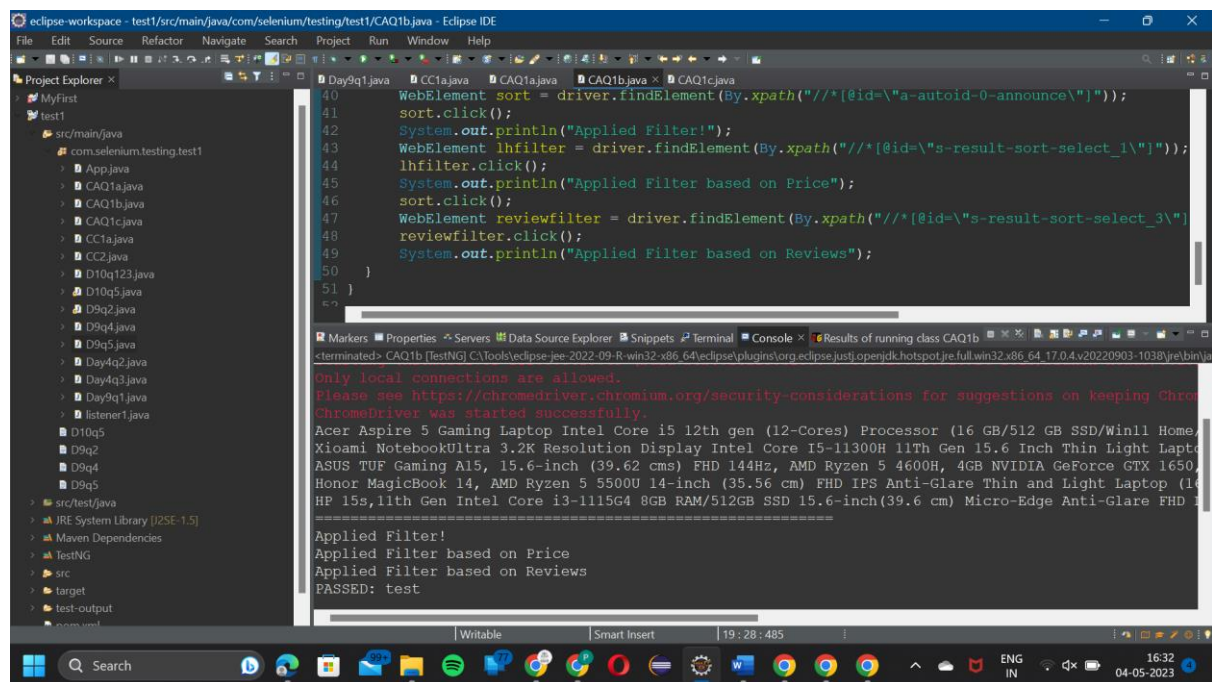
        List<WebElement> tiltleElements =
driver.findElements(By.xpath("//h2[@class='a-size-mini a-
spacing-none a-color-base s-line-clamp-2']"));

        for (WebElement titleElement : tiltleElements) {
            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:



```
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  }
```

Only local connections are allowed.
Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver secure.
ChromeDriver was started successfully.
Acer Aspire 5 Gaming Laptop Intel Core i5 12th gen (12-Cores) Processor (16 GB/512 GB SSD/Win11 Home)
Xiaomi 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 (14
HP 15s, 11th Gen Intel Core i3-1115G4 8GB RAM/512GB SSD 15.6-inch(39.6 cm) Micro-Edge Anti-Glare FHD 1

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");

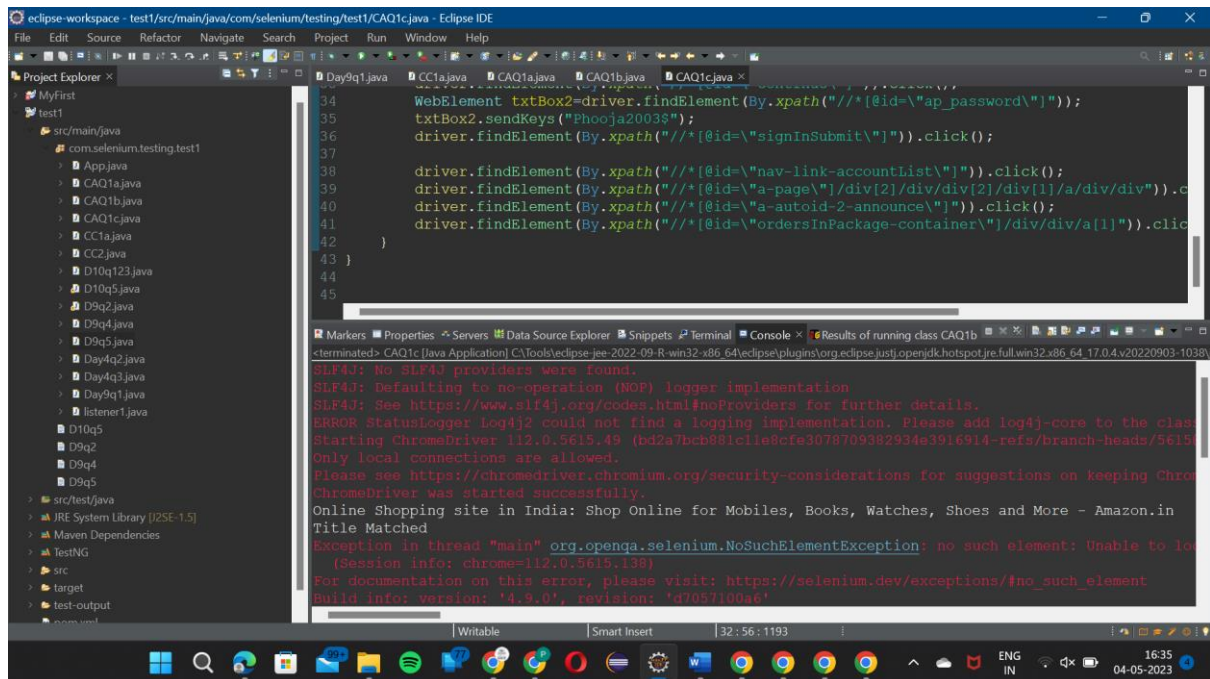
driver.findElement(By.xpath("//*[@id=\"continue\"]")).cli
ck();
WebElement
txtBox2=driver.findElement(By.xpath("//*[@id=\"ap_password\"]"
));
txtBox2.sendKeys("Phooja2003$");

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 displays the Eclipse IDE interface. The Project Explorer on the left shows a project named 'MyFirst' with a package 'com.selenium.testing.test1' containing several Java files. The main editor shows the code for 'CAQ1c.java', which includes Selenium WebDriver commands for finding elements and clicking them. The Console window at the bottom shows the output of running the class 'CAQ1b'. The output includes messages from SLF4J and Log4j, indicating that no logging implementation was found and defaulting to no-operation (NOP). It also shows that ChromeDriver was started successfully. Finally, an exception is thrown: 'org.openqa.selenium.NoSuchElementException: no such element: Unable to locate element (Session info: chrome=112.0.5615.138)'. The error message suggests checking the XPath expression and provides a link to Selenium documentation for more details.

```
terminated> CAQ1c [Java Application] C:\Tools\ eclipse-jee-2022-09-R-win32-x86_64\ eclipse\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-10380
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 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/5615)
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping Chrom
ChromeDriver was started successfully.
Online Shopping site in India: Shop Online for Mobiles, Books, Watches, Shoes and More - Amazon.in
Title Matched
Exception in thread "main" org.openqa.selenium.NoSuchElementException: no such element: Unable to loc
(Session info: chrome=112.0.5615.138)
For documentation on this error, please visit: https://selenium.dev/exceptions/#no_such_element
Build info: version: '4.8.0', revision: 'd705710046'
```