Software Testing - CA1

Question 1:

Code:

```
package com.rithik.cal;
import org.junit.Assert;
import org.openga.selenium.By;
import org.openqa.selenium.Keys;
import org.openga.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;
public class Question1 {
   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);
        String url =
"https://www.amazon.com/ap/signin?openid.pape.max auth age=0&openid.return
to=https%3A%2F%2Fwww.amazon.com%2F%3F encoding%3DUTF8%26ref %3Dnav ya sig
nin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifie
r select&openid.assoc handle=usflex&openid.mode=checkid setup&openid.claim
ed id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier select&openi
d.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0&";
        driver.get(url);
        driver.manage().window().maximize();
       WebElement em = driver.findElement(By.id("ap email"));
        em.sendKeys("rithukuza@gmail.com", Keys.ENTER);
```

```
WebElement pw = driver.findElement(By.id("ap password"));
        pw.sendKeys("rithukuza", Keys.ENTER);
        WebElement srch =
driver.findElement(By.id("twotabsearchtextbox"));
        srch.sendKeys("cloth", Keys.ENTER);
        WebElement cloth = driver.findElement(By.xpath(
                "//*[@id=\"search\"]/div[1]/div[1]/div/span[1]/div[1]/div[
2]/div/div/div/div/div/div[3]/div[2]/h2/a"));
        cloth.click();
        WebElement addToCart = driver.findElement(By.id("add-to-cart-
button"));
       addToCart.click();
        Thread.sleep(3000);
        WebElement added = driver.findElement(By.id("nav-cart-count"));
        Assert.assertNotEquals(added.getText(), "0");
        System.out.println("* User can add a product by clicking on Add to
Cart button");
        WebElement open = driver.findElement(By.xpath("//*[@id=\"sw-
gtc\"]/span/a"));
       open.click();
        String acPrice = driver
                .findElement(By.xpath(
                        "//*[@id=\"sc-subtotal-amount-
activecart\"]/span"))
                .getText();
         WebElement deleteButton =
         driver.findElement(By.xpath("//*[@id=\"sc-active-C786292ce-7473-
4968-8fd0-a45b402154e6\"]/div[4]/div[div[3]/div[1]/span[2]/span/input"));
```

```
Assert.assertTrue(deleteButton.isEnabled());
         System.out.println("* User can remove a product by clicking on
Remove button");
         WebElement update = driver.findElement(By.id("a-autoid-0-
announce"));
         Assert.assertTrue(update.isEnabled());
         System.out.println("* User can update a product by clicking on
Update button");
         WebElement checkout = driver.findElement(By.xpath("//*[@id=\"sc-
buy-box-ptc-button\"]/span/input"));
         checkout.click();
         Assert.assertEquals(driver.getCurrentUrl(),
"https://www.amazon.com/gp/buy/payselect/handlers/display.html? from=cheet
ah");
         System.out.println("* User can can proceed to the checkout page
by clicking on the Checkout button");
         System.out.println("* Checkout process is working as expected and
calculates the total cost accurately");
         driver.quit();
```

Screenshot:

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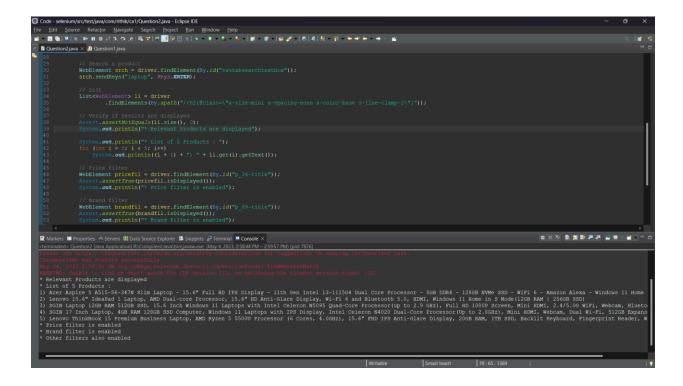
Question 2:

Code:

```
package com.rithik.cal;
import java.util.List;
import org.junit.Assert;
import org.openqa.selenium.By;
import org.openga.selenium.JavascriptExecutor;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;
public class Question2 {
   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);
       String url = "https://www.amazon.com/";
       driver.get(url);
       driver.manage().window().maximize();
       WebElement srch =
driver.findElement(By.id("twotabsearchtextbox"));
        srch.sendKeys("laptop", Keys.ENTER);
       List<WebElement> li = driver
                .findElements(By.xpath("//h2[@class=\"a-size-mini a-
spacing-none a-color-base s-line-clamp-2\"]"));
```

```
Assert.assertNotEquals(li.size(), 0);
System.out.println("* Relevant Products are displayed");
System.out.println("* List of 5 Products : ");
    System.out.println((i + 1) + ") " + li.get(i).getText());
WebElement pricefil = driver.findElement(By.id("p 36-title"));
Assert.assertTrue(pricefil.isDisplayed());
System.out.println("* Price filter is enabled");
WebElement brandfil = driver.findElement(By.id("p 89-title"));
Assert.assertTrue(brandfil.isDisplayed());
System.out.println("* Brand filter is enabled");
JavascriptExecutor js = (JavascriptExecutor) driver;
js.executeScript("window.scrollBy(0, 500)");
WebElement otherfil = driver.findElement(By.id("filters"));
Assert.assertTrue(otherfil.isDisplayed());
System.out.println("* Other filters also enabled");
driver.quit();
```

Screenshot:



Question 3:

Code:

```
package com.rithik.cal;
import org.junit.Assert;
import org.openga.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openga.selenium.WebElement;
import org.openga.selenium.chrome.ChromeDriver;
import org.openga.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;
public class Question3 {
   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);
        String url =
"https://www.amazon.com/ap/signin?openid.pape.max auth age=0&openid.return
to=https%3A%2F%2Fwww.amazon.com%2F%3F encoding%3DUTF8%26ref %3Dnav ya sig
nin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifie
r select&openid.assoc handle=usflex&openid.mode=checkid setup&openid.claim
ed id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier select&openi
d.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0&";
       driver.get(url);
        driver.manage().window().maximize();
        WebElement em = driver.findElement(By.id("ap email"));
        em.sendKeys("rithukuza@gmail.com", Keys.ENTER);
        WebElement pw = driver.findElement(By.id("ap password"));
        pw.sendKeys("rithukuza", Keys.ENTER);
        WebElement clik = driver.findElement(By.xpath("//*[@id=\"nav-link-
accountList\"|"));
```

Screenshot:

