Q1)

   (i)

 Code:

```
package cse1;


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.testng.Assert;

import io.github.bonigarcia.wdm.WebDriverManager;

public class CA1Q1 {
	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\"]")).click();
	driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("
Rog Strix G15 Advantage Edition");
	driver.findElement(By.xpath("//*[@id=\"nav-search-submit-
button\"]")).click();
	Thread.sleep(2000);
	driver.navigate().to("https://www.amazon.in/ASUS-Advantage-15-6-inch-RX-
6800M-G513QY-
HQ032WS/dp/B0B1J22NHN/ref=sr_1_3?crid=1MP4M4O6DCH5J&keywords=rog+strix+g15+advanta
ge+edition&qid=1683191658&sprefix=rog+strix+g15+advantage+edition%2Caps%2C1234&sr=
8-3") ;
	driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();

	WebElement cart=driver.findElement(By.id("nav-cart-count"));
	String t3 = cart.getText();
	String t4 = "1";
	if(t3==t4) {
	System.out.print("Added to cart is working successfully");
	}else {
	System.out.print("Added to cart is not working successfully");
	}
	}
}
```

Output:

```
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. Using SimpleLogger to log to the console...
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 4900
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:

```java
package cse1;

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.testng.Assert;

import io.github.bonigarcia.wdm.WebDriverManager;

public class CA1Q1 {
    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.navigate().to("https://www.amazon.in/ap/signin?openid.pape.max_auth_
age=0&openid.return_to=https%3A%2F%2Fwww.amazon.in%2F%3Fref_%3Dnav_signin&openid.i
dentity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.asso
c_handle=inflex&openid.mode=checkid_setup&openid.claimed_id=http%3A%2F%2Fspecs.ope
nid.net%2Fauth%2F2.0%2Fidentifier_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2
Fauth%2F2.0&");

        driver.findElement(By.id("ap_email")).sendKeys("rickyjoywin@gmail.com");
        driver.findElement(By.id("continue")).submit();
        driver.findElement(By.id("ap_password")).sendKeys("king@2003");
        driver.findElement(By.id("signInSubmit")).submit();

        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("
Rog Strix G15 Advantage Edition");
        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-
button\"]")).click();
        Thread.sleep(2000);
        driver.navigate().to("https://www.amazon.in/ASUS-Advantage-15-6-
inch-RX-6800M-G513QY-
HQ032WS/dp/B0B1J22NHN/ref=sr_1_3?crid=1MP4M4O6DCH5J&keywords=rog+strix+g15+advanta
ge+edition&qid=1683191658&sprefix=rog+strix+g15+advantage+edition%2Caps%2C1234&sr=
8-3") ;
        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);
        driver.findElement(By.className("a-color-link")).submit();
        WebElement cart =driver.findElement(By.id("nav-cart-count"));
```

```java
            String e =cart.getText();
            if(e=="0") {
                    System.out.println("Removing from cart is working
successfully");
            }
            else {
                    System.out.println("Removing from cart is not working
Successfully");
            }

       }
}
```

Output:

iii)

Code:

```java
package com.testcase;
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 App2 {
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("f
ossil watches");
driver.findElement(By.xpath("//*[@id=\"nav-search-submit-
button\"]")).click();
Thread.sleep(2000);
driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-
Snapdragon-
Smartphone-
Notifications/dp/B09DGS966L/ref=sr_1_25?crid=2LOQNXJII74SZ
&keywords=fossil+watches&qid=1681295284&sprefix=fossil+watche%2Caps%
2
C405&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_=n
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 working successfully");
}else {
System.out.print("Updating cart is not working successfully");
}
}
```

```
}
```

Output:

<terminated> App2 [Java Application] /Users/deeksith/.p2/pool/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.macosx.x86_64_17.0.6.v20230204-1729/jre/bin/java (12-Apr-2023, 4:17
SLF4J: No SLF4J providers were found.
SLF4 <terminated> App2 [Java Application] /Users/   logger implementation
SLF4 deeksith/.p2/pool/plugins/   tml#noProviders for further details.
Star org.eclipse.justj.openjdk.hotspot.jre.full.macosx a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/5615@{#936}) on port 22759
Only .x86_64_17.0.6.v20230204-1729/jre/bin/java
Plea (12-Apr-2023, 4:17:22 pm – 4:18:13 pm) [pid: h.org/security-considerations for suggestions on keeping ChromeDriver safe.
Chro 14748]
Apr 12, 2023 4:17:31 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
Updating cart is working successfully

iv)

Code:

```java
package com.testcase;
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 App2 {
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("f
ossil watches");
driver.findElement(By.xpath("//*[@id=\"nav-search-submit-
button\"]")).click();
Thread.sleep(2000);
driver.navigate().to("https://www.amazon.in/Fossil-Smartwatch-
Snapdragon-
Smartphone-
Notifications/dp/B09DGS966L/ref=sr_1_25?crid=2LOQNXJII74SZ
&keywords=fossil+watches&qid=1681295284&sprefix=fossil+watche%2Caps%
2
C405&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 sigin page");
}
```
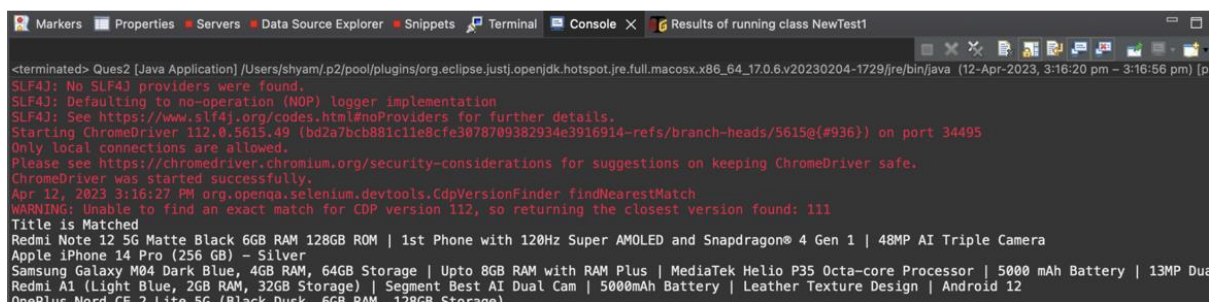
```
}
}
```

Output:

2)

Code:

```java
package com.testcase;
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 App2 {
public static void main( String[] args ){
ChromeOptions co=new ChromeOptions();
co.addArguments("--remote-allow-origins=*");
WebDriverManager.chromedriver().setup();//setting up chrome driver
WebDriver driver=new ChromeDriver();
driver.get("https://www.amazon.in");
driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sen
dKeys("S
hoes");
driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sen
dKeys(K
eys.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/spa
n")).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[2]/div/div/div[3]/div[1]/d
iv/div[1]/div[2]/a/sp
an[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")).c
lick();
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[2]/div/div/div[1]/h2/a/span"));
System.out.print("Price 2,000-10,000 & Puma: "+ c.getText());
}
}
```

Output:

3)

Code:

```java
package com.testcase;
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 App2 {
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_s
ignin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fi
dentifier_select&openid.assoc_handle=inflex&openid.mode=checkid_setu
p&
openid.claimed_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fide
ntifier_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0&
"
);
//sigin
driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).click();
driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).sendKeys("6382
023425")
;
driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
driver.findElement(By.xpath("//*[@id=\"ap_password\"]")).click();
driver.findElement(By.xpath("//*[@id=\"ap_password\"]")).sendKeys("d
eeksith
28");
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");
```

```java
}
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");
}
//
driver.findElement(By.xpath("//*[@id=\"a-
page\"]/div[2]/div/div[2]/div[1]/a/div"))
.click();
// WebElement
trac=driver.findElement(By.xpath("//*[@id=\"a-
page\"]/section/div[1]/div[2]/div[
1]/h1"));
String act1=ord.getText();
String exp1="Your orders";
if(act.equals(exp)) {
System.out.println("User is able to track package");
}
//
driver.findElement(By.xpath("//*[@id=\"pop\"]/div/div[2]/div/div[1]/
div/div[3]/di
v/div/div/div/div[2]/div/div/a")).click();
System.out.println("User is able to view their products");
}
}
```