

CA – 1

**Question : 1**

**Task – 1 :**

```
package com.selenium.ca1q1;

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 t1
{
    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("google
pixel 7");

driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();

Thread.sleep(2000);

driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-128GB-
Storage/dp/B0BJL8H3QY/ref=sr_1_2?keywords=google+pixel+7&sr=8-2") ;

driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();

WebElement
cart=driver.findElement(By.xpath("//*[@id=\"nav-cart-count\"]"));

if(cart.getText().equals("1")) {

    System.out.print("Added to cart is working successfully");

}else {

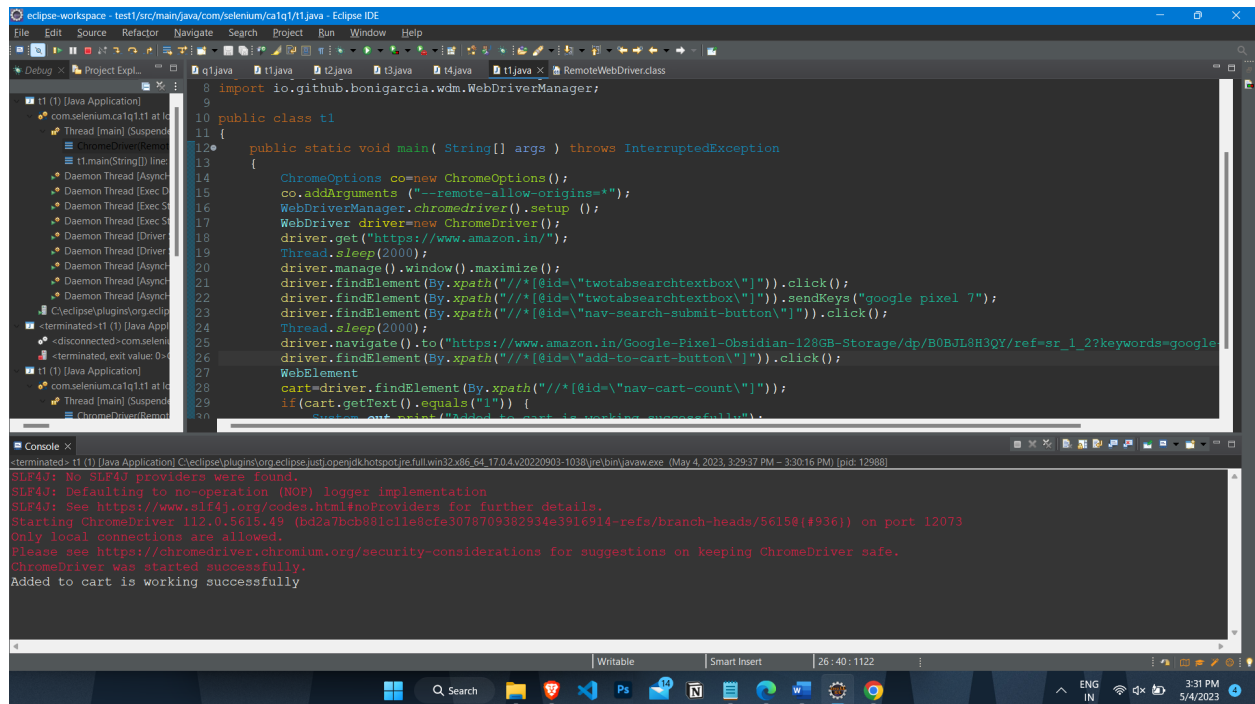
    System.out.print("Added to cart is not working successfully");

}

}

}
```

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The screenshot displays the Eclipse IDE interface. The main editor shows a Java file named `t1.java` with the following code:

```
8 import io.github.bonigarcia.wdm.WebDriverManager;
9
10 public class t1
11 {
12     public static void main( String[] args ) throws InterruptedException
13     {
14         ChromeOptions co=new ChromeOptions();
15         co.addArguments ("--remote-allow-origins=*");
16         WebDriverManager.chromedriver().setup ();
17         WebDriver driver=new ChromeDriver();
18         driver.get("https://www.amazon.in/");
19         Thread.sleep(2000);
20         driver.manage().window().maximize();
21         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
22         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("google pixel 7");
23         driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
24         Thread.sleep(2000);
25         driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-l28GB-Storage/dp/B0BJL8H3QY/ref=ar_1_2?keywords=google");
26         driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
27         WebElement
28         cart=driver.findElement(By.xpath("//*[@id=\"nav-cart-count\"]"));
29         if(cart.getText().equals("1")) {
30             System.out.println("Added to cart is working successfully");
31         }
32     }
33 }
```

The console output shows the following messages:

```
<terminated> t1 (1) [Java Application] C:\eclipse\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86_64.17.0.4.v20220903-1038\jre\bin\javaw.exe (May 4, 2023, 3:29:37 PM - 3:30:16 PM) [pid: 12988]
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.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/56150{#936}) on port 12073
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
```

The taskbar at the bottom shows the system clock as 3:31 PM on 5/4/2023.

**Task – 2 :**

```
package com.selenium.ca1q1;

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 t2
{
    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("google
pixel 7");
        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
        Thread.sleep(2000);
        driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-128GB-
Storage/dp/B0BJL8H3QY/ref=sr_1_2?keywords=google+pixel+7&sr=8-2") ;
        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);
```

```
WebElement
```

```
cart=driver.findElement(By.xpath("/html/body/div[1]/div[2]/div[3]/div[5]/div/div[2]/div[1]/div/f
orm/div[2]/div[3]/div[4]/div/div[2]/div[1]/span[1]/span/span[1]/span/span/span/span/span[2]"));
```

```
if(cart.getText().equals("0")) {
```

```
System.out.print("Removing from cart is working successfully");
```

```
}else {
```

```
System.out.print("Removing from cart is not working successfully");
```

```
}
```

```
}
```

```
}
```

The screenshot shows the Eclipse IDE with a project named 'College' and a package 'com.selenium.calql'. The source code in 't2.java' is as follows:

```
1 package com.selenium.calql;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.openqa.selenium.chrome.ChromeOptions;
8 import io.github.bonigarcia.wdm.WebDriverManager;
9
10 public class t2
11 {
12     public static void main(String[] args) throws InterruptedException
13     {
14         ChromeOptions co=new ChromeOptions();
15         co.addArguments("--remote-allow-origins=*");
16         WebDriverManager.chromedriver().setup();
17         WebDriver driver=new ChromeDriver();
18         driver.get("https://www.amazon.in/");
19         Thread.sleep(2000);
20         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
21         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("google pixel 7");
22         driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
23         Thread.sleep(2000);
24     }
25 }
```

The console output shows the following messages:

```
<terminated> 12 (1) [Java Application] C:\eclipse\plugins\org.eclipse.justi.openjdk hotspot\jre\full\win32\x86_64\17.0.4\20200903-1038\jre\bin\javaw.exe (May 4, 2023, 3:39:52 PM - 3:41:08 PM) [pid: 16484]
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.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c11e8cfe3078709382934e3916914-refs/branch-heads/56150(#936)) on port 35439
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Removing from cart is working successfully
```

**Task – 3 :**

```
package com.selenium.ca1q1;

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 t3 {

    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("google
pixel 7");

        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
        Thread.sleep(2000);

        driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-128GB-
Storage/dp/B0BJL8H3QY/ref=sr_1_2?keywords=google+pixel+7&sr=8-2");
        driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
        driver.navigate().to("https://www.amazon.in/gp/cart/view.html?ref_=nav_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");
```

```
}
```

```
}
```

```
}
```

The screenshot shows the Eclipse IDE with a Java project named 'test1'. The source code in the editor is as follows:

```
1 package com.selenium.calq1;
2
3 import org.openqa.selenium.By;
4 import org.openqa.selenium.WebDriver;
5 import org.openqa.selenium.WebElement;
6 import org.openqa.selenium.chrome.ChromeDriver;
7 import org.openqa.selenium.chrome.ChromeOptions;
8 import io.github.bonigarcia.wdm.WebDriverManager;
9
10 public class t3 {
11     public static void main(String[] args) throws InterruptedException {
12         ChromeOptions co=new ChromeOptions();
13         co.addArguments("--remote-allow-origins=*");
14         WebDriverManager.chromedriver().setup();
15         WebDriver driver=new ChromeDriver();
16         driver.get("https://www.amazon.in/");
17         Thread.sleep(2000);
18         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).click();
19         driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("google pixel 7");
20         driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
21         Thread.sleep(2000);
22         driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-128GB-Storage/dp/B0BJL5H3QY/ref=ar_1_2?keywords=google");
23         driver.findElement(By.xpath("//*[@id=\"add-to-cart-button\"]")).click();
24     }
25 }
```

The console output shows the following messages:

```
<terminated> B (1) [Java Application] C:\eclipse\plugins\org.eclipse.jdt.openjdk\hotspot\jre.full\win32\x86_64-17.0.4\v20220903-1038\jre\bin\javaw.exe. (May 4, 2023, 3:43:19 PM - 3:44:14 PM) [pid: 1608]
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.
Starting ChromeDriver 112.0.5615.49 (bd2a7bcb881c1e8cfe3078709382934e3916914-refs/branch-heads/5615@#936) on port 10532
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Updating cart is working successfully
```

**Task – 4 :**

```
package com.selenium.ca1q1;
```

```
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 t4 {
```

```
    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("google  
pixel 7");
```

```
        driver.findElement(By.xpath("//*[@id=\"nav-search-submit-button\"]")).click();
```

```
        Thread.sleep(2000);
```

```
        driver.navigate().to("https://www.amazon.in/Google-Pixel-Obsidian-128GB-  
Storage/dp/B0BJL8H3QY/ref=sr_1_2?keywords=google+pixel+7&sr=8-2") ;
```





## Question : 2

```
package com.selenium.ca1q2;

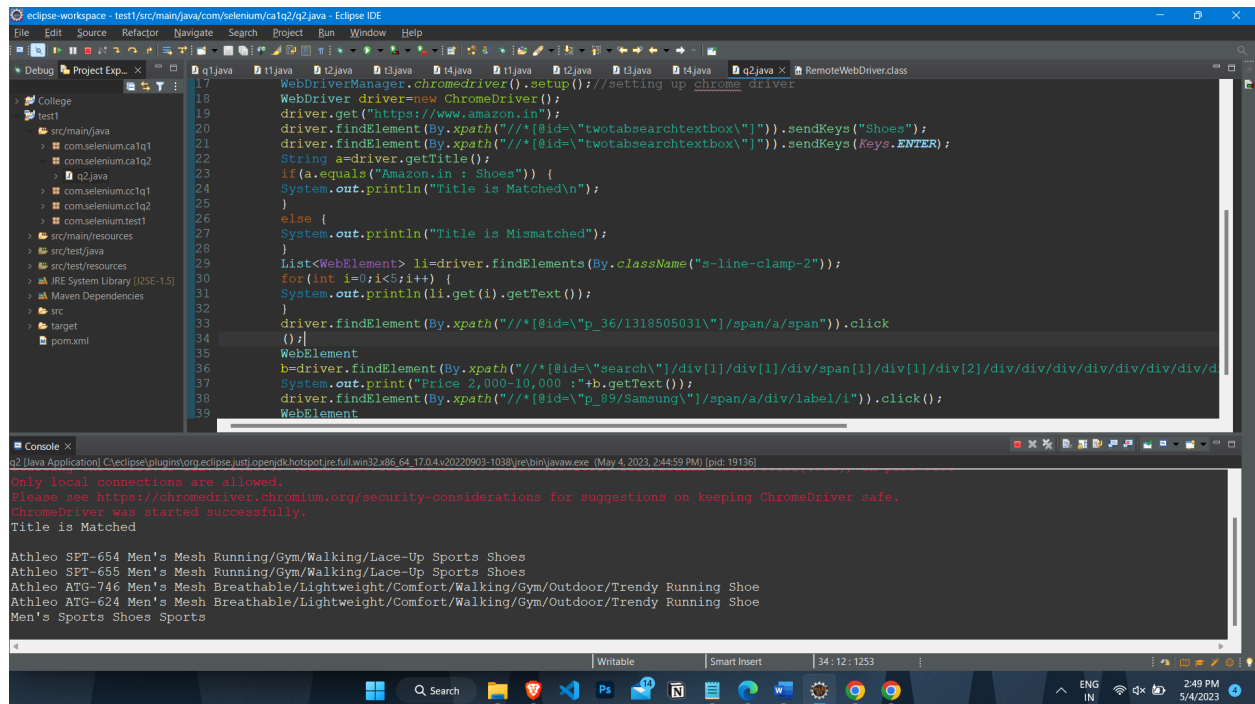
import java.util.List;
import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;
import io.github.bonigarcia.wdm.WebDriverManager;

public class q2
{
    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\"]")).sendKeys("Shoes");

        driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys(Keys.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/span")).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/div[2]/div/div/div[3]/div[1]/div/div[1]/div[2]/a/span[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/label/i")).click();  
  
    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());  
  
}  
  
}
```

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The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named `RemoteWebDriver.class` with the following code:

```
17 WebDriverManager.chromedriver().setup(); //setting up chrome driver
18 WebDriver driver=new ChromeDriver();
19 driver.get("https://www.amazon.in");
20 driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys("Shoes");
21 driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"]")).sendKeys(Keys.ENTER);
22 String a=driver.getTitle();
23 if(a.equals("Amazon.in : Shoes")) {
24     System.out.println("Title is Matched\n");
25 }
26 else {
27     System.out.println("Title is Mismatched");
28 }
29 List

The console output shows the following messages:



```
q2 [Java Application] C:\eclipse\plugins\org.eclipse.justi.openjdk.hotspot.pu.full.win32.x86_64.17.0.4\20220903-1038\jre\bin\javaw.exe. (May 4, 2023, 2:44:59 PM) [pid: 19136]
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Title is Matched

Athleo SFT-654 Men's Mesh Running/Gym/Walking/Lace-Up Sports Shoes
Athleo SFT-655 Men's Mesh Running/Gym/Walking/Lace-Up Sports Shoes
Athleo ATG-746 Men's Mesh Breathable/Lightweight/Comfort/Walking/Gym/Outdoor/Trendy Running Shoe
Athleo ATG-624 Men's Mesh Breathable/Lightweight/Comfort/Walking/Gym/Outdoor/Trendy Running Shoe
Men's Sports Shoes Sports
```


```

### Question : 3

```
package com.selenium.ca1q3;

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 q3
{
    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_signin&openid.identity=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.assoc_handle=inflex&openid.mode=checkid_setup&openid.claimed_id=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0%2Fidentifier_select&openid.ns=http%3A%2F%2Fspecs.openid.net%2Fauth%2F2.0&");

        driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).click();

        driver.findElement(By.xpath("//*[@id=\"ap_email\"]")).sendKeys("7695896704")
    }
}
```

```
;
driver.findElement(By.xpath("//*[@id=\"continue\"]")).click();
driver.findElement(By.xpath("//*[@id=\"ap_password\"]")).click();
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");
}
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");
```

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[illegible]