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QUESTION 1

CODE:

```
package com.selenium.test1.selenium1;

import org.openqa.selenium.By;

import org.openqa.selenium.WebDriver;

import org.openqa.selenium.chrome.ChromeDriver;

import org.openqa.selenium.chrome.ChromeOptions;

import org.testng.Assert;

import io.github.bonigarcia.wdm.WebDriverManager;

public class QUE1 {

    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);

        driver.get("https://www.saucedemo.com/");

        driver.manage().window().maximize();

        driver.findElement(By.name("user-name")).sendKeys("standard_user");

        driver.findElement(By.name("password")).sendKeys("secret_sauce");

        driver.findElement(By.id("login-button")).click();
```

```
driver.get("https://www.saucedemo.com/inventory-item.html?id=2");

driver.findElement(By.id("add-to-cart-sauce-labs-onesie")).click();

System.out.println("Added to cart");

driver.findElement(By.className("shopping_cart_link")).click();

System.out.println("Cart is visible");

driver.findElement(By.id("checkout")).click();

System.out.println("Checkout is visible");

driver.findElement(By.name("firstName")).sendKeys("ALMITHA");

driver.findElement(By.name("lastName")).sendKeys("DENCY");

driver.findElement(By.name("postalCode")).sendKeys("629202");

driver.findElement(By.name("continue")).click();

System.out.println("Overview is visible");

String name=driver.findElement(By.xpath("//*[@id=\"item_2_title_link\"]/div")).getText();

System.out.println(name);

String
price=driver.findElement(By.xpath("//*[@id=\"checkout_summary_container\"]/div/div[1]/div[3]
]/div[2]/div[2]/div")).getText();

System.out.println(price);

String t="Swag Labs";

String t1=driver.getTitle();

Assert.assertEquals(t,t1);

System.out.println("Title is verified");

String url="https://www.saucedemo.com/checkout-step-two.html";

String ActualUrl=driver.getCurrentUrl();
```

```

Assert.assertEquals(url,ActualUrl);

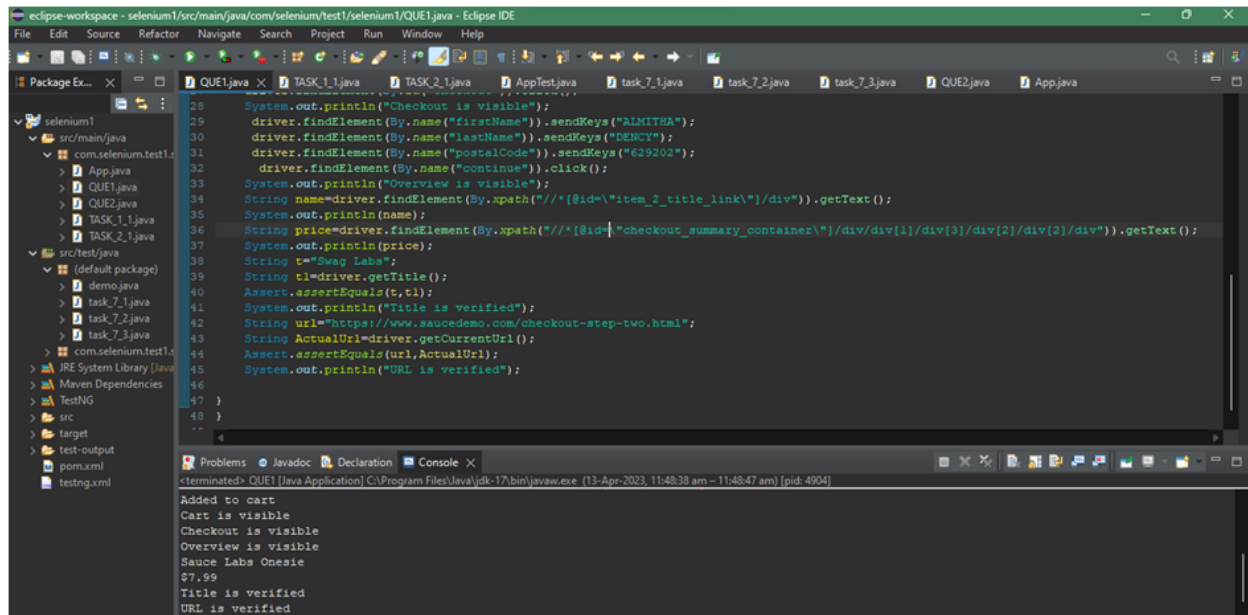
System.out.println("URL is verified");

}

}

```

OUTPUT:



QUESTION 2

Task 2.1

```

package com.selenium.test1.selenium1;

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 org.openqa.selenium.support.ui.Select;


import io.github.bonigarcia.wdm.WebDriverManager;


public class QUE2_1 {

    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);

        driver.get("https://www.saucedemo.com/");

        driver.manage().window().maximize();

        driver.findElement(By.name("user-name")).sendKeys("standard_user");

        driver.findElement(By.name("password")).sendKeys("secret_sauce");

        driver.findElement(By.id("login-button")).click();

        WebElement sort1=driver.findElement(By.className("product_sort_container"));

        sort1.click();

        System.out.println("A-Z is applicable");

        Select select=new Select(sort1);

        select.selectByIndex(1);

        System.out.println("Z-A is applicable");
```

```
}
}
```

OUTPUT:

Task 2.2

```
package com.selenium.test1.selenium1;
```

```
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 org.openqa.selenium.support.ui.Select;
```

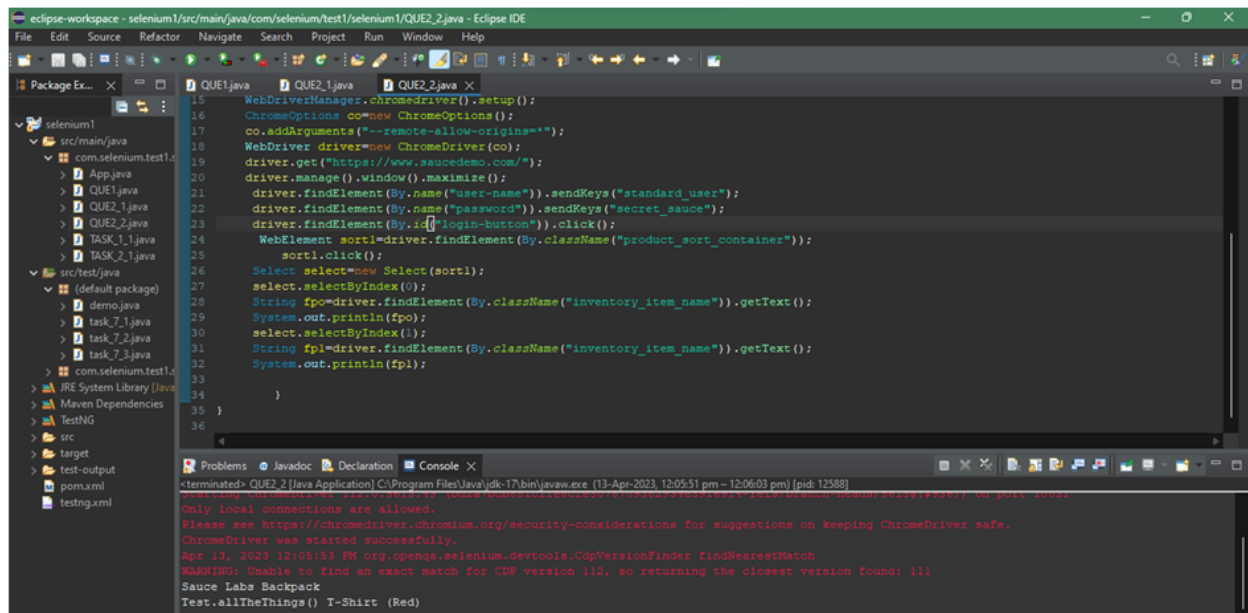
```
import io.github.bonigarcia.wdm.WebDriverManager;
```

```
public class QUE2_2 {
```

```
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);  
driver.get("https://www.saucedemo.com/");  
driver.manage().window().maximize();  
driver.findElement(By.name("user-name")).sendKeys("standard_user");  
driver.findElement(By.name("password")).sendKeys("secret_sauce");  
driver.findElement(By.id("login-button")).click();  
WebElement sort1=driver.findElement(By.className("product_sort_container"));  
sort1.click();  
Select select=new Select(sort1);  
select.selectByIndex(0);  
String fpo=driver.findElement(By.className("inventory_item_name")).getText();  
System.out.println(fpo);  
select.selectByIndex(1);  
String fp1=driver.findElement(By.className("inventory_item_name")).getText();  
System.out.println(fp1);  
}  
}
```

OUTPUT:



```
15 WebDriverManager.chromedriver().setup();
16 ChromeOptions co=new ChromeOptions();
17 co.addArguments("--remote-allow-origins=*");
18 WebDriver driver=new ChromeDriver(co);
19 driver.get("https://www.saucedemo.com/");
20 driver.manage().window().maximize();
21 driver.findElement(By.name("user-name")).sendKeys("standard_user");
22 driver.findElement(By.name("password")).sendKeys("secret_sauce");
23 driver.findElement(By.id("login-button")).click();
24 WebElement sort1=driver.findElement(By.className("product_sort_container"));
25 sort1.click();
26 Select select=new Select(sort1);
27 select.selectByIndex(0);
28 String fpo=driver.findElement(By.className("inventory_item_name")).getText();
29 System.out.println(fpo);
30 select.selectByIndex(1);
31 String fpl=driver.findElement(By.className("inventory_item_name")).getText();
32 System.out.println(fpl);
33
34 }
35
36
```

terminated: QUE2_2 [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe (13-Apr-2023, 12:05:51 pm - 12:06:03 pm) [pid: 12588]

WARNING: Unable to find an exact match for CDP version 112, so returning the closest version found: 111

Sauce Labs Backpack

Test.allTheThings() T-Shirt (Red)

Task 2.3

```
package com.selenium.test1.selenium1;

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 org.openqa.selenium.support.ui.Select;

import io.github.bonigarcia.wdm.WebDriverManager;

public class QUE2_3 {

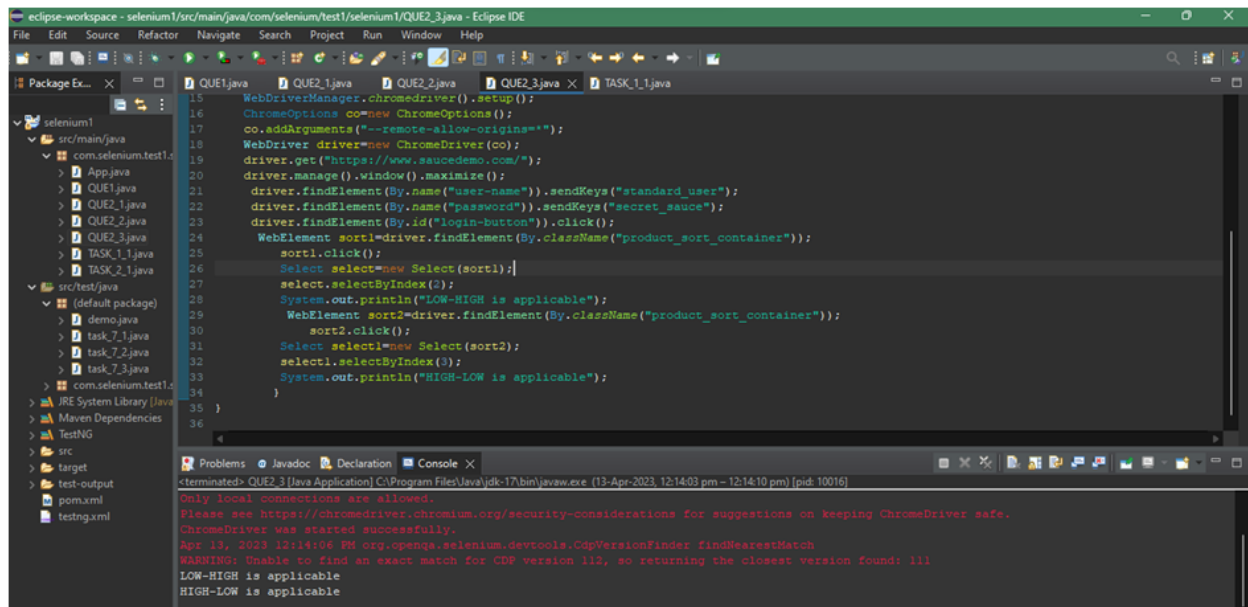
    public static void main( String[] args ) throws InterruptedException

    {

        WebDriverManager.chromedriver().setup();
```

```
ChromeOptions co=new ChromeOptions();  
co.addArguments("--remote-allow-origins=*");  
WebDriver driver=new ChromeDriver(co);  
driver.get("https://www.saucedemo.com/");  
driver.manage().window().maximize();  
driver.findElement(By.name("user-name")).sendKeys("standard_user");  
driver.findElement(By.name("password")).sendKeys("secret_sauce");  
driver.findElement(By.id("login-button")).click();  
WebElement sort1=driver.findElement(By.className("product_sort_container"));  
sort1.click();  
Select select=new Select(sort1);  
select.selectByIndex(2);  
System.out.println("LOW-HIGH is applicable");  
WebElement sort2=driver.findElement(By.className("product_sort_container"));  
sort2.click();  
Select select1=new Select(sort2);  
select1.selectByIndex(3);  
System.out.println("HIGH-LOW is applicable");  
}  
}
```


OUTPUT:



The screenshot shows the Eclipse IDE with a Java project named 'selenium1'. The package explorer on the left shows the project structure. The main editor displays the code for 'QUE2_3.java'. The code is a Selenium test script that uses WebDriverManager to set up a ChromeDriver, navigates to 'https://www.saucedemo.com/', logs in with 'standard_user' and 'secret_sauce', and interacts with a 'product_sort_container' to select 'LOW-HIGH' and 'HIGH-LOW' options. The console at the bottom shows the execution output, including a warning about the CDP version and the successful execution of the test steps.

```
15 WebDriverManager.chromedriver().setup();
16 ChromeOptions co=new ChromeOptions();
17 co.addArguments("--remote-allow-origins=*");
18 WebDriver driver=new ChromeDriver(co);
19 driver.get("https://www.saucedemo.com/");
20 driver.manage().window().maximize();
21 driver.findElement(By.name("user-name")).sendKeys("standard_user");
22 driver.findElement(By.name("password")).sendKeys("secret_sauce");
23 driver.findElement(By.id("login-button")).click();
24 WebElement sort1=driver.findElement(By.className("product_sort_container"));
25 sort1.click();
26 Select select=new Select(sort1);
27 select.selectByIndex(2);
28 System.out.println("LOW-HIGH is applicable");
29 WebElement sort2=driver.findElement(By.className("product_sort_container"));
30 sort2.click();
31 Select select1=new Select(sort2);
32 select1.selectByIndex(3);
33 System.out.println("HIGH-LOW is applicable");
34 }
35 }
36
```

Console Output:

```
<terminated> QUE2_3 [Java Application] C:\Program Files\Java\jdk-17\bin\javaw.exe (13-Apr-2023, 12:14:03 pm - 12:14:10 pm) [pid: 10016]
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 13, 2023 12:14:04 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
LOW-HIGH is applicable
HIGH-LOW is applicable
```

Task 2.4

```
package com.selenium.test1.selenium1;

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 org.openqa.selenium.support.ui.Select;

import io.github.bonigarcia.wdm.WebDriverManager;

public class QUE2_4 {

    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);

driver.get("https://www.saucedemo.com/");

driver.manage().window().maximize();

driver.findElement(By.name("user-name")).sendKeys("standard_user");

driver.findElement(By.name("password")).sendKeys("secret_sauce");

driver.findElement(By.id("login-button")).click();

WebElement sort1=driver.findElement(By.className("product_sort_container"));

sort1.click();

Select select=new Select(sort1);

select.selectByIndex(2);

String d1=driver.findElement(By.className("inventory_item_name")).getText();

System.out.println(d1);

WebElement sort2=driver.findElement(By.className("product_sort_container"));

sort2.click();

Select select1=new Select(sort2);

select1.selectByIndex(3);

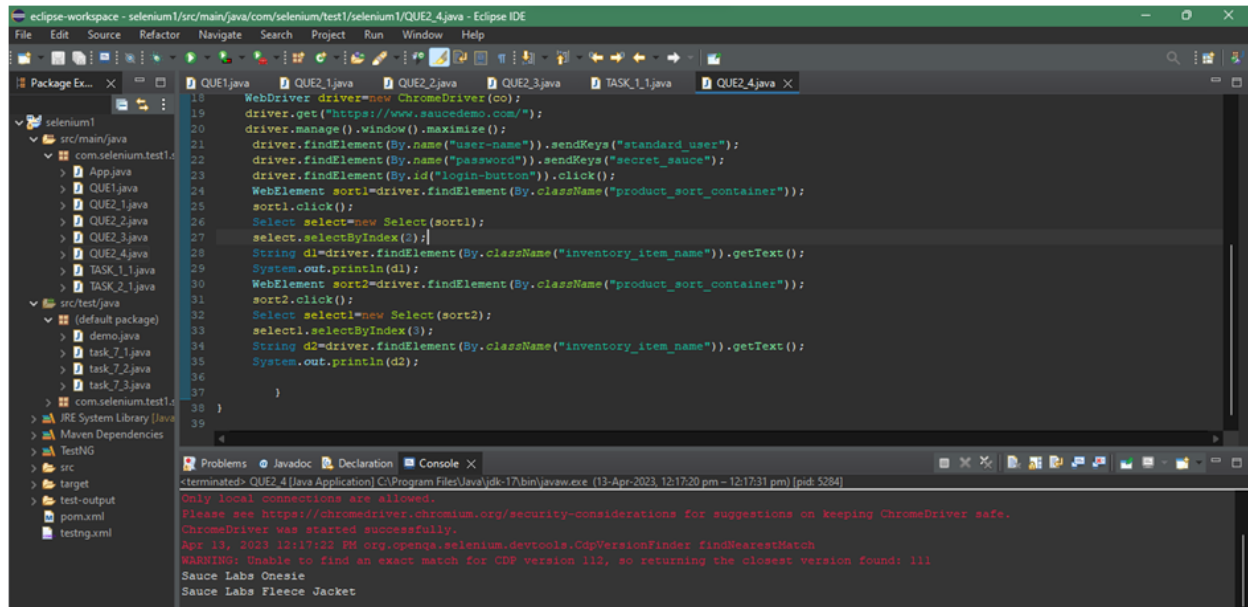
String d2=driver.findElement(By.className("inventory_item_name")).getText();

System.out.println(d2);

}

}
```

OUTPUT:



The screenshot shows the Eclipse IDE interface. The main editor displays a Java file named `QUE2_4.java` with the following code:

```
18 WebDriver driver=new ChromeDriver(co);
19 driver.get("https://www.saucedemo.com/");
20 driver.manage().window().maximize();
21 driver.findElement(By.name("user-name")).sendKeys("standard_user");
22 driver.findElement(By.name("password")).sendKeys("secret_sauce");
23 driver.findElement(By.id("login-button")).click();
24 WebElement sort1=driver.findElement(By.className("product_sort_container"));
25 sort1.click();
26 Select select=new Select(sort1);
27 select.selectByIndex(2);
28 String d1=driver.findElement(By.className("inventory_item_name")).getText();
29 System.out.println(d1);
30 WebElement sort2=driver.findElement(By.className("product_sort_container"));
31 sort2.click();
32 Select select1=new Select(sort2);
33 select1.selectByIndex(3);
34 String d2=driver.findElement(By.className("inventory_item_name")).getText();
35 System.out.println(d2);
36
37 }
38
39
```

The left sidebar shows the project structure for `selenium1`, including `src/main/java` and `src/test/java` packages. The bottom console window shows the following output:

```
<terminated> QUE2_4 [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe (13-Apr-2023, 12:17:20 pm - 12:17:31 pm) [pid: 5284]
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Apr 13, 2023 12:17:22 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
Sauce Labs Onesie
Sauce Labs Fleece Jacket
```