Question 1 :

Coding :

```java
package cc;

import org.openqa.selenium.By;
import org.testng.Assert;
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 Question1 {

    public static void main(String[] args) {

        String url = "https://www.saucedemo.com/";
        // TODO Auto-generated method stub
        WebDriverManager.chromedriver().setup();
        ChromeOptions co=new ChromeOptions();
        co.addArguments("--remote-allow-origins=*");
        WebDriver driver=new ChromeDriver(co);

        driver.get(url);
        WebElement username = driver.findElement(By.xpath("//*[@id=\"user-name\"]"));
        username.sendKeys("standard_user");
```

```java
WebElement password = driver.findElement(By.xpath("//*[@id=\"password\"]"));

password.sendKeys("secret_sauce");

WebElement login = driver.findElement(By.xpath("//*[@id=\"login-button\"]"));

login.click();

WebElement cartItem = driver.findElement(By.xpath("//*[@id=\"add-to-cart-sauce-labs-backpack\"]"));

cartItem.click();

WebElement cart = driver.findElement(By.xpath("//*[@id=\"shopping_cart_container\"]/a"));

cart.click();

WebElement checkOut = driver.findElement(By.xpath("//*[@id=\"checkout\"]"));

checkOut.click();

WebElement fname = driver.findElement(By.xpath("//*[@id=\"first-name\"]"));

fname.sendKeys("Navaneethan");

WebElement lname = driver.findElement(By.xpath("//*[@id=\"last-name\"]"));

lname.sendKeys("Ganeshram");

WebElement zipcode = driver.findElement(By.xpath("//*[@id=\"postal-code\"]"));

zipcode.sendKeys("625531");

WebElement continueButton = driver.findElement(By.xpath("//*[@id=\"continue\"]"));

continueButton.click();

WebElement productElement = driver.findElement(By.xpath("//*[@id=\"item_4_title_link\"]/div"));

String productName = productElement.getText();

WebElement priceElement = driver.findElement(By.xpath("//*[@id=\"checkout_summary_container\"]/div/div[1]/div[3]/div[2]/div[2]/div"));
```

```java
        String price = priceElement.getText();

        System.out.println(productName);

        System.out.println(price);

        String title = driver.getTitle();

        String pageUrl = driver.getCurrentUrl();

        Assert.assertEquals(title, "Swag Labs");

        Assert.assertEquals(pageUrl, "https://www.saucedemo.com/checkout-step-two.html");


    }


}
```

Output :
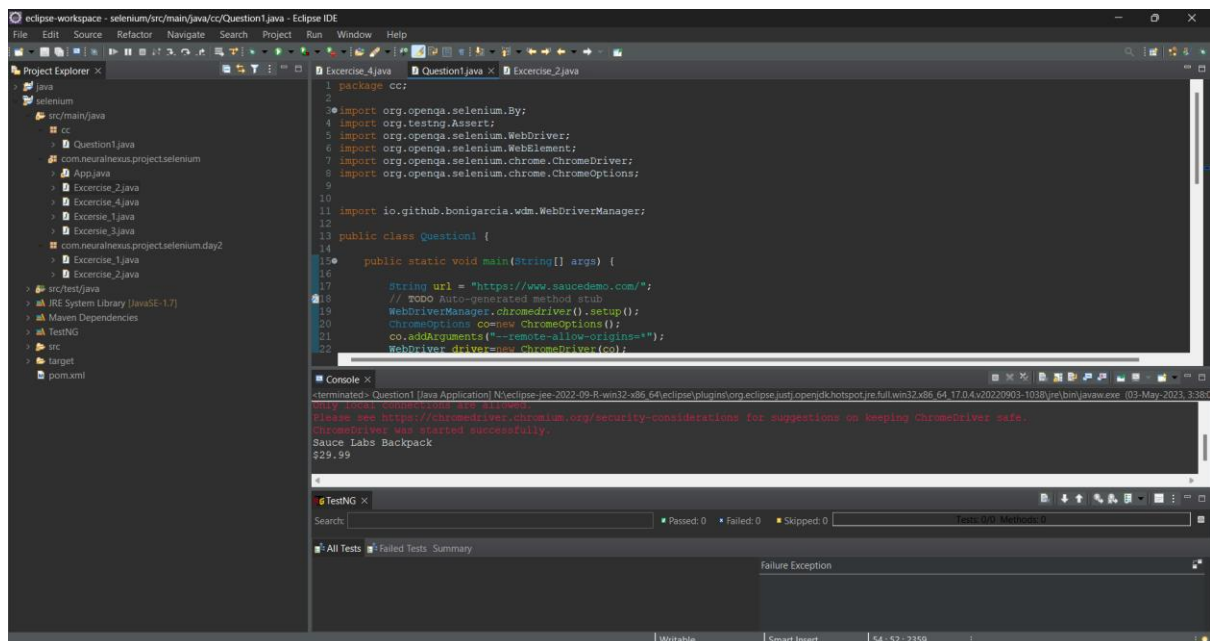
Question 2 :

Coding :

```java
package cc;

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.edge.EdgeDriver;

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


import io.github.bonigarcia.wdm.WebDriverManager;

public class Question2 {


        public static void main(String[] args) throws Exception {


                WebDriverManager.edgedriver().setup();

                EdgeDriver driver = new EdgeDriver();

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

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

                Thread.sleep(3000);

                driver.findElement(By.xpath("//*[@id=\"user-name\"]")).sendKeys("standard_user");

driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("secret_sauce");

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

                Thread.sleep(3000);

driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).isEnabled();
```

```java
            System.out.println("A-Z filter :" +
driver.findElement(By.xpath("//*[@id=\"item_4_title_link\"]/div")).getText());


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).click();


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[2]"
)).click();
            System.out.println("Z-A filter :" +
driver.findElement(By.xpath("//*[@id=\"item_3_title_link\"]/div")).getText());


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).click();


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[3]"
)).isEnabled();


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[3]"
)).click();
            System.out.println("L-H filter :" +
driver.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[1]/div[2]/div[2]/div")).g
etText());


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[4]"
)).isEnabled();


driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[4]"
)).click();
            System.out.println("H-L filter :" +
driver.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[1]/div[2]/div[2]/div")).g
etText());
        }


}
```

Output :

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer

- java
- selenium
  - src/main/java
    - cc
      - Question1.java
      - Question2.java
    - com.neuralnexus.project.selenium
      - App.java
      - Excercise_2.java
      - Excercise_4.java
      - Excersie_1.java
      - Excersie_3.java
    - com.neuralnexus.project.selenium.day2
      - Excercise_1.java
      - Excercise_2.java
  - src/test/java
  - JRE System Library [JavaSE-1.7]
  - Maven Dependencies
  - TestNG
  - src
  - target
  - pom.xml

Excercise_4.java   Question1.java   Excercise_2.java   Question2.java

```java
19        driver.manage().window().maximize();
20        Thread.sleep(3000);
21        driver.findElement(By.xpath("//*[@id=\"user-name\"]")).sendKeys("standard_user");
22        driver.findElement(By.xpath("//*[@id=\"password\"]")).sendKeys("secret_sauce");
23        driver.findElement(By.xpath("//*[@id=\"login-button\"]")).click();
24        Thread.sleep(3000);
25        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).isEnabled();
26        System.out.println("A-Z filter :" + driver.findElement(By.xpath("//*[@id=\"item_4_title_link\"]/div")).getText());
27        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).click();
28        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[2]")).click();
29        System.out.println("Z-A filter :" + driver.findElement(By.xpath("//*[@id=\"item_3_title_link\"]/div")).getText());
30        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select")).click();
31        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[3]")).isEnabled();
32        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[3]")).click();
33        System.out.println("L-H filter :" + driver.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[1]/div[2]/div[2]/div
34        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[4]")).isEnabled();
35        driver.findElement(By.xpath("//*[@id=\"header_container\"]/div[2]/div/span/select/option[4]")).click();
36        System.out.println("H-L filter :" + driver.findElement(By.xpath("//*[@id=\"inventory_container\"]/div/div[1]/div[2]/div[2]/div
37    }
38
39 }
40
```

Console

<terminated> Question2 [Java Application] N:\eclipse-jee-2022-09-R-win32-x86_64\eclipse\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.4.v20220903-1038\jre\bin\javaw.exe (03-May-2023, 4:10:5

```
A-Z filter :Sauce Labs Backpack
Z-A filter :Test.allTheThings() T-Shirt (Red)
L-H filter :$7.99
H-L filter :$49.99
```

TestNG

Search: Passed: 0   Failed: 0   Skipped: 0   Tests: 0/0 Methods: 0

All Tests   Failed Tests   Summary

Failure Exception

Writable   Smart Insert   36 : 42 : 2208