```java
//main class
package org.example;

public class Main {
    //set username and password,
    //  change these to unique variables to get the sign in function to work, otherwise the
website has a bug
    //  that will cause the register to not work at all if the user and pass are already in use
    static String username = "diffuser";
    static String password = "diffpass";

    public String getUsername() {
        return username;
    }

    public String getPassword() {
        return password;
    }

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

        //first scenario
        SignUpAndSignIn signup = new SignUpAndSignIn();
        signup.SignUpAndSignIn(username, password);
        signup.getDriver().close();

        //second scenario
        AddAndRemoveItem add = new AddAndRemoveItem();
        add.AddAndRemoveItem(username, password);
        add.getDriver().close();

        //third scenario
        SearchProducts search = new SearchProducts();
        search.SearchProducts(username, password);
        search.getDriver().close();
    }
}

//signupandsignin class
package org.example;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

import java.time.Duration;

public class SignUpAndSignIn {
```

```java
private WebDriver driver = new ChromeDriver();

public void SignUpAndSignIn(String user, String pass) throws InterruptedException {
    System.setProperty("webdriver.chrome.driver","chromedriver.exe");

    //this line below waits for up to 20 seconds for pages to load
    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(20));

    //set website
    driver.get("https://petstore.octoperf.com/");

    //click enter store button
    driver.findElement(By.linkText("Enter the Store")).click();

    //navigate to register button
    driver.findElement(By.linkText("Sign In")).click();
    driver.findElement(By.linkText("Register Now!")).click();
    //input details into table fields
    driver.findElement(By.name("username")).sendKeys(user);
    driver.findElement(By.name("password")).sendKeys(pass);
    driver.findElement(By.name("repeatedPassword")).sendKeys(pass);
    driver.findElement(By.name("account.firstName")).sendKeys("fname");
    driver.findElement(By.name("account.lastName")).sendKeys("lname");
    driver.findElement(By.name("account.email")).sendKeys("email@email.com");
    driver.findElement(By.name("account.phone")).sendKeys("1111");
    driver.findElement(By.name("account.address1")).sendKeys("address");
    driver.findElement(By.name("account.city")).sendKeys("city");
    driver.findElement(By.name("account.state")).sendKeys("state");
    driver.findElement(By.name("account.zip")).sendKeys("1000");
    driver.findElement(By.name("account.country")).sendKeys("country");
    //complete account creation
    driver.findElement(By.name("newAccount")).click();

    //sign in to new account
    driver.findElement(By.linkText("Sign In")).click();
    driver.findElement(By.name("username")).sendKeys(user);
    driver.findElement(By.name("password")).clear();
    driver.findElement(By.name("password")).sendKeys(pass);
    driver.findElement(By.name("signon")).click();

    Thread.sleep(1000);
}

public WebDriver getDriver() {
    return driver;
}
}
```

```java
//addandremoveitem class
package org.example;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

import java.time.Duration;

public class AddAndRemoveItem {

    private final WebDriver driver = new ChromeDriver();

        public void AddAndRemoveItem(String user, String pass) throws InterruptedException {
            System.setProperty("webdriver.chrome.driver","chromedriver.exe");

            //this line below waits for up to 20 seconds for pages to load
            driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(20));

            //set website
            driver.get("https://petstore.octoperf.com/");

            //click enter store button
            driver.findElement(By.linkText("Enter the Store")).click();

            //sign in to the website
            driver.findElement(By.linkText("Sign In")).click();
            driver.findElement(By.name("username")).sendKeys(user);
            driver.findElement(By.name("password")).clear();
            driver.findElement(By.name("password")).sendKeys(pass);
            driver.findElement(By.name("signon")).click();

            //navigate to the dogs / cats and add one of each animal to the shopping cart

driver.get("https://petstore.octoperf.com/actions/Catalog.action?viewCategory=&categoryId=DOGS");
        driver.findElement(By.linkText("K9-PO-02")).click();
        driver.findElement(By.linkText("Add to Cart")).click();
        driver.findElement(By.linkText("Return to Main Menu")).click();

driver.get("https://petstore.octoperf.com/actions/Catalog.action?viewCategory=&categoryId=CATS");
        driver.findElement(By.linkText("FL-DSH-01")).click();
        driver.findElement(By.linkText("Add to Cart")).click();
        driver.findElement(By.linkText("Return to Main Menu")).click();
```

```java
        //go to the shopping cart from main menu and then remove one item from shopping
cart
        driver.findElement(By.name("img_cart")).click();
        driver.findElement(By.linkText("Remove")).click();

        //checkout item/s
        driver.findElement(By.linkText("Proceed to Checkout")).click();
        driver.findElement(By.name("newOrder")).click();
        driver.findElement(By.linkText("Confirm")).click();

        Thread.sleep(1000);
    }

    public WebDriver getDriver() {
        return driver;
    }
}


//searchproducts class
package org.example;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

import java.time.Duration;

public class SearchProducts {

    private WebDriver driver = new ChromeDriver();

    public void SearchProducts(String user, String pass) throws InterruptedException {
        System.setProperty("webdriver.chrome.driver", "chromedriver.exe");


        //this line below waits for up to 20 seconds for pages to load
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(20));

        //set website
        driver.get("https://petstore.octoperf.com/");

        //click enter store button
        driver.findElement(By.linkText("Enter the Store")).click();

        //sign in to the website
        driver.findElement(By.linkText("Sign In")).click();
```

```java
            driver.findElement(By.name("username")).sendKeys(user);
            driver.findElement(By.name("password")).clear();
            driver.findElement(By.name("password")).sendKeys(pass);
            driver.findElement(By.name("signon")).click();

            driver.findElement(By.name("keyword")).sendKeys("not-on-product-list");
            driver.findElement(By.name("searchProducts")).click();
            driver.findElement(By.name("keyword")).clear();
            driver.findElement(By.name("keyword")).sendKeys("dog");
            driver.findElement(By.name("searchProducts")).click();
            driver.findElement(By.linkText("Friendly dog from England")).click();
            driver.findElement(By.linkText("Add to Cart")).click();

            driver.findElement(By.linkText("Return to Main Menu")).click();
            driver.findElement(By.name("img_cart")).click();

            Thread.sleep(1000);
    }

    public WebDriver getDriver() {
        return driver;
    }
}


//seleniumdrivertest class
package org.example;

import com.inflectra.spiratest.addons.junitextension.SpiraTestCase;
import com.inflectra.spiratest.addons.junitextension.SpiraTestConfiguration;
import org.junit.jupiter.api.*;
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;

import java.util.concurrent.TimeUnit;

import static org.junit.jupiter.api.Assertions.*;

@SpiraTestConfiguration(
        url = "https://rmit.spiraservice.net/",
        login = "s3942349",
        rssToken = "{2A0F9F1B-AC73-4CDB-9A11-ADDE18EEA50E}",
        projectId = 105
)
@TestMethodOrder(MethodOrderer.OrderAnnotation.class)

public class SeleniumDriverTest {
```

```java
Main main = new Main();

@Test
@Order(1)
@SpiraTestCase(testCaseId = 5003)
public void testjpet()
{
    WebDriver driver = new ChromeDriver();
    System.setProperty("Webdriver.chrome.driver","chromedriver.exe");

    //assign specified website
    driver.get("https://petstore.octoperf.com/");

    //driver will wait for five seconds for website to load
    driver.manage().timeouts().implicitlyWait(5, TimeUnit.SECONDS);
    //check name of website to actual website name
    String actualResult = "JPetStore Demo";
    String expectedResult = driver.getTitle();
    assertEquals(expectedResult, actualResult);
    driver.close();
}

@Test
@Order(2)
@SpiraTestCase(testCaseId = 5026)
public void testEnterAndSignIn() throws InterruptedException {
    SignUpAndSignIn signup = new SignUpAndSignIn();
    //get driver object from class that is being tested
    WebDriver driver = signup.getDriver();
    //login and then make sure that user has logged in
    signup.SignUpAndSignIn(main.getUsername(), main.getPassword());
    String actualResult = "My Account";
    String expectedResult = driver.findElement(By.linkText("My Account")).getText();
    //check is results match or not then close driver
    assertEquals(expectedResult, actualResult);
    driver.close();
}

@Test
@Order(3)
@SpiraTestCase(testCaseId = 5027)
public void testAddAndRemoveItem() throws InterruptedException {
    AddAndRemoveItem add = new AddAndRemoveItem();
    WebDriver driver = add.getDriver();

    //check if the order was submitted correctly
    add.AddAndRemoveItem(main.getUsername(), main.getPassword());
```

```java
        String expectedResult = driver.findElement(By.className("messages")).getText();
        String actualResult = "Thank you, your order has been submitted.";
        assertEquals(expectedResult, actualResult);
        driver.close();
    }

    @Test
    @Order(4)
    @SpiraTestCase(testCaseId = 5028)
    public void testSearchProducts() throws InterruptedException {
        SearchProducts search = new SearchProducts();
        WebDriver driver = search.getDriver();
        //test that the correct product was searched for
        search.SearchProducts(main.getUsername(), main.getPassword());
        String expectedResult = driver.findElement(By.linkText("EST-6")).getText();
        String actualResult = "EST-6";
        assertEquals(expectedResult, actualResult);
        driver.close();
    }
}
```