

## Problem Statement:

In this challenge, we will automate e-commerce site.

Configure chrome browser and navigate to <https://www.jcpenney.com>

Search for shirts and add the first item in the search list to cart.

Move till checkout and you can stop when it asks for login.

**Source code:** SearchShirt.java

```
package com.ibm.seleniumconcepts;
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.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.Select;
import org.openqa.selenium.support.ui.WebDriverWait;
import java.util.concurrent.TimeUnit;
import java.util.List;

public class SearchShirt {

    //Declaration of main method
    public static void main(String[] args) {

        //Setting relative path for Chrome driver
        System.setProperty("webdriver.chrome.driver",
"./drivers/chromedriver.exe");
        WebDriver driver = new ChromeDriver();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);
        WebDriverWait wait = new WebDriverWait(driver, 40);
        driver.manage().window().maximize();

        //Launching web application
        driver.get("https://www.jcpenney.com");

        wait.until(ExpectedConditions.presenceOfElementLocated(By.id("closeButton")));
        driver.findElement(By.xpath("//a[@id='closeButton']")).click();

        wait.until(ExpectedConditions.presenceOfElementLocated(By.id("searchTerm")));

        //Locating Search text box and entering value
        WebElement searchElt =
driver.findElement(By.xpath("//input[@id='searchTerm']"));
        searchElt.sendKeys("shirts");

        //Locating search button and clicking on it
```

```

        //WebElement
searchButton=driver.findElement(By.xpath("//button[@class='btn_searchForm']"));
        WebElement
searchButton=driver.findElement(By.xpath("//button[@title='search']"));
        //WebElement
searchButton=driver.findElement(By.xpath("//form[@id='keywordSearch']/descendant::but
ton[1]"));
        searchButton.click();

        //To click on displayed shirt image
driver.findElement(By.xpath("//img[@class='productDisplay_image--
default']")).click();

        //To locate the drop down field Size and selecting size value
WebElement sizeElt =
driver.findElement(By.xpath("//select[@id='SIZE']"));
        Select selectSize = new Select(sizeElt);
        selectSize.selectByVisibleText("14.5 / 32-33");

        //To click on color box
driver.findElement(By.xpath("//img[@title='Blooming Blue']")).click();

        //To locate and click on Add to Bag button
driver.findElement(By.xpath("//*[contains(@name,'add to bag') and
text()='Add to Bag']")).click();

        //To locate frame and switch to frame
WebElement
frameElt=driver.findElement(By.xpath("//*[@id='modalIframe']"));
        driver.switchTo().frame(frameElt);

        //Wait for the checkout button to be visible

wait.until(ExpectedConditions.presenceOfElementLocated(By.id("btncheckout")));

        //To locate and click on Check out button
WebElement
checkoutButton=driver.findElement(By.xpath("//input[@id='btncheckout']"));
        checkoutButton.click();

        //Wait for the another check out button to visible

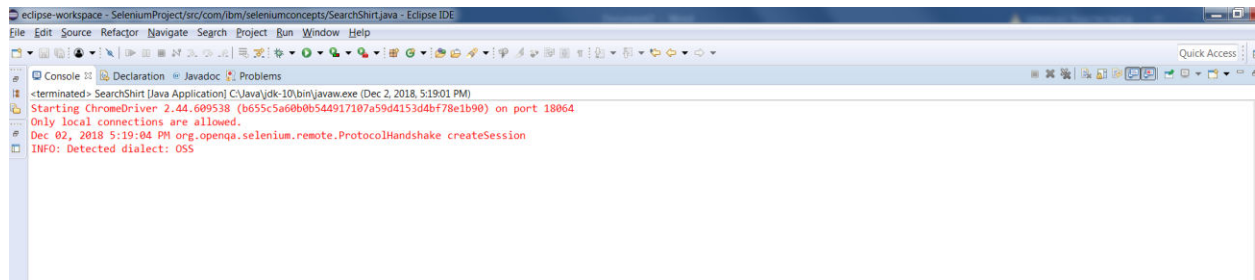
wait.until(ExpectedConditions.presenceOfElementLocated(By.id("Checkout")));

        //To locate and click on Next Check out button
driver.findElement(By.xpath("//input[@id='Checkout']")).click();
    }

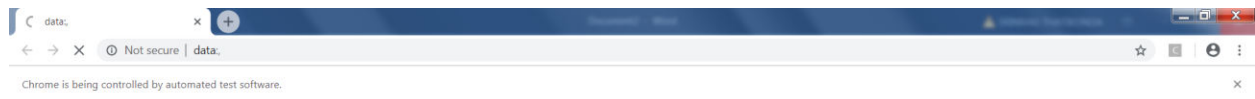
} //End of program

```

## Output:



```
eclipse-workspace - SeleniumProject/src/com/ibm/seleniumconcepts/SearchShirt.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help
Console Declaration Javadoc Problems
[terminated] SearchShirt [Java Application] C:\Java\jdk-10\bin\java.exe (Dec 2, 2018, 5:19:01 PM)
Starting ChromeDriver 2.44.609538 (b655c5a68b0b544917187a59d4153d4bf78e1b90) on port 18064
Only local connections are allowed.
# Dec 02, 2018 5:19:04 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: OSS
```

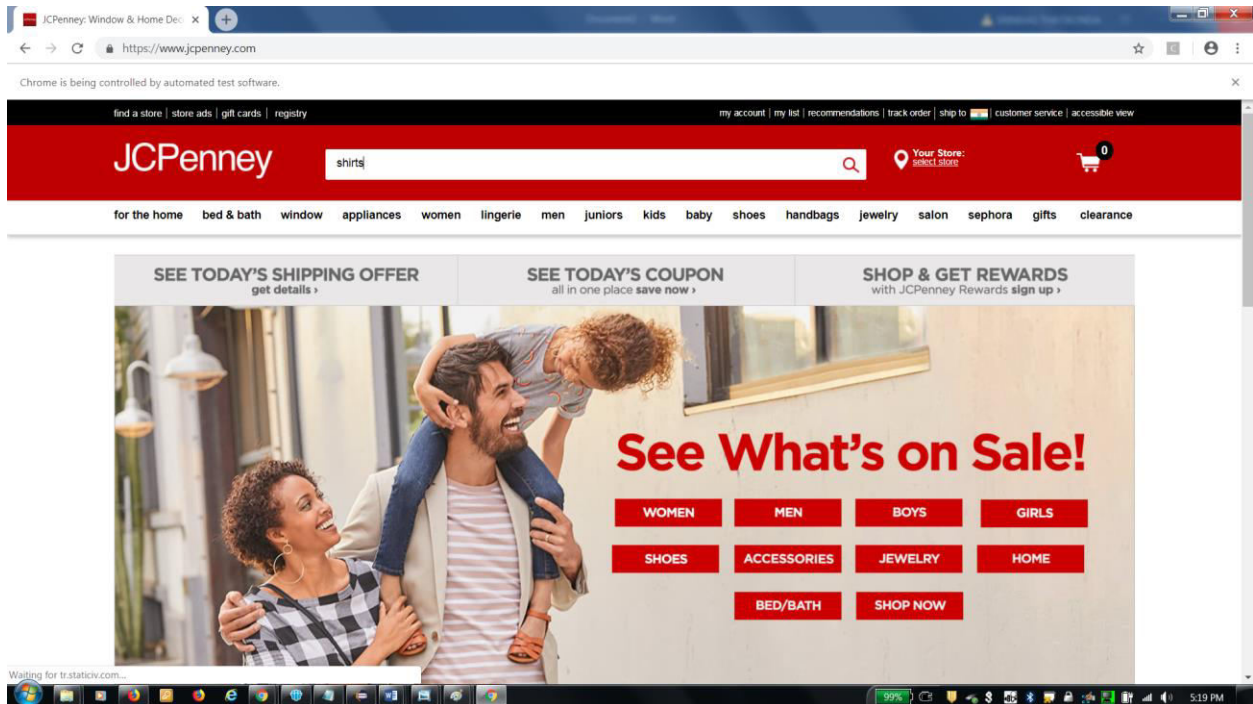
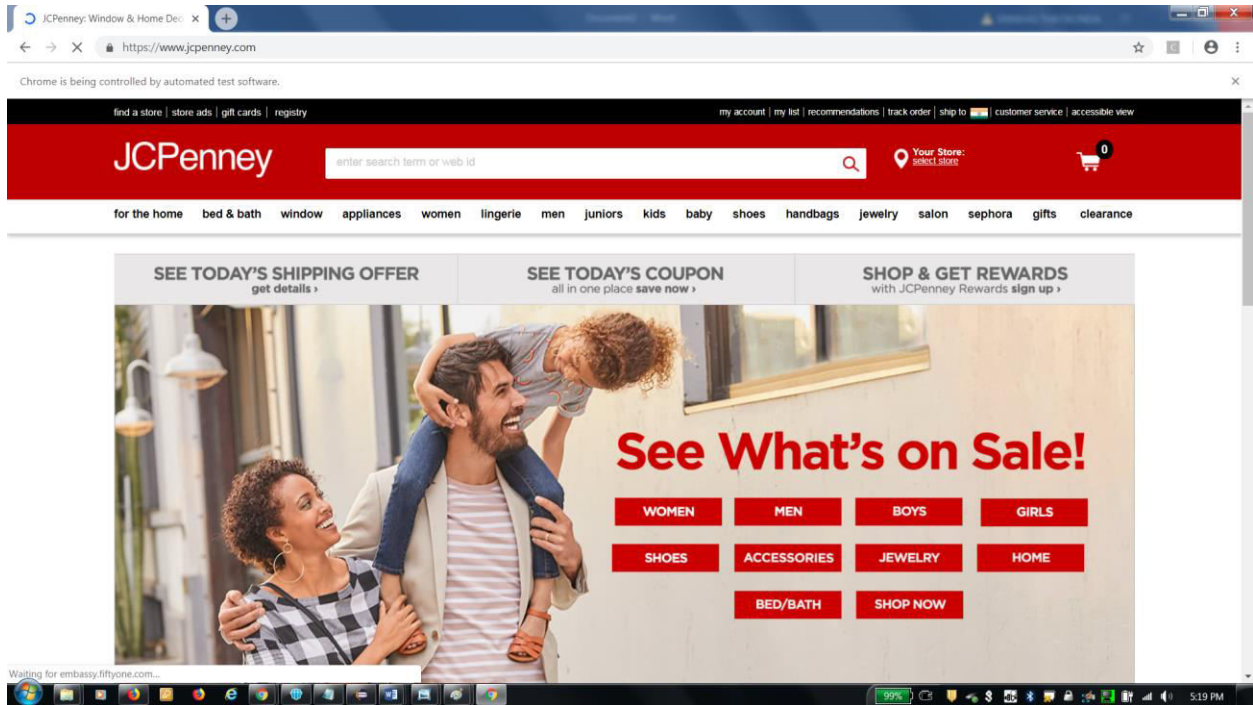


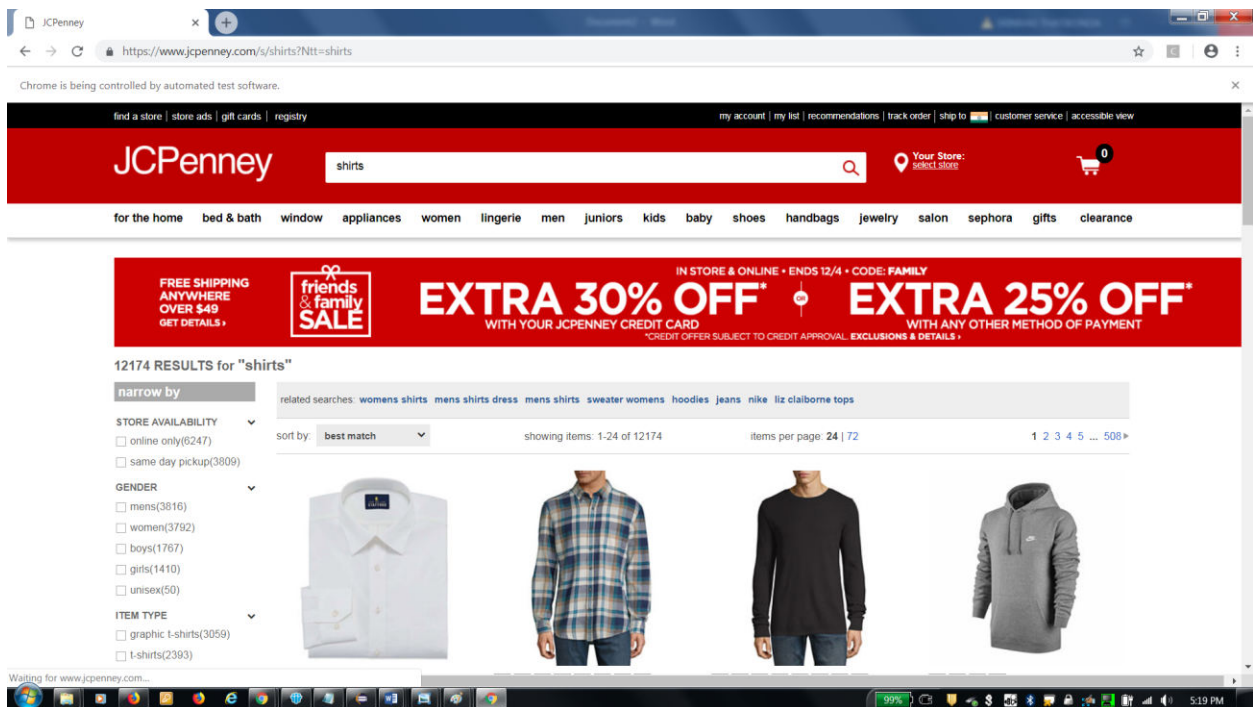
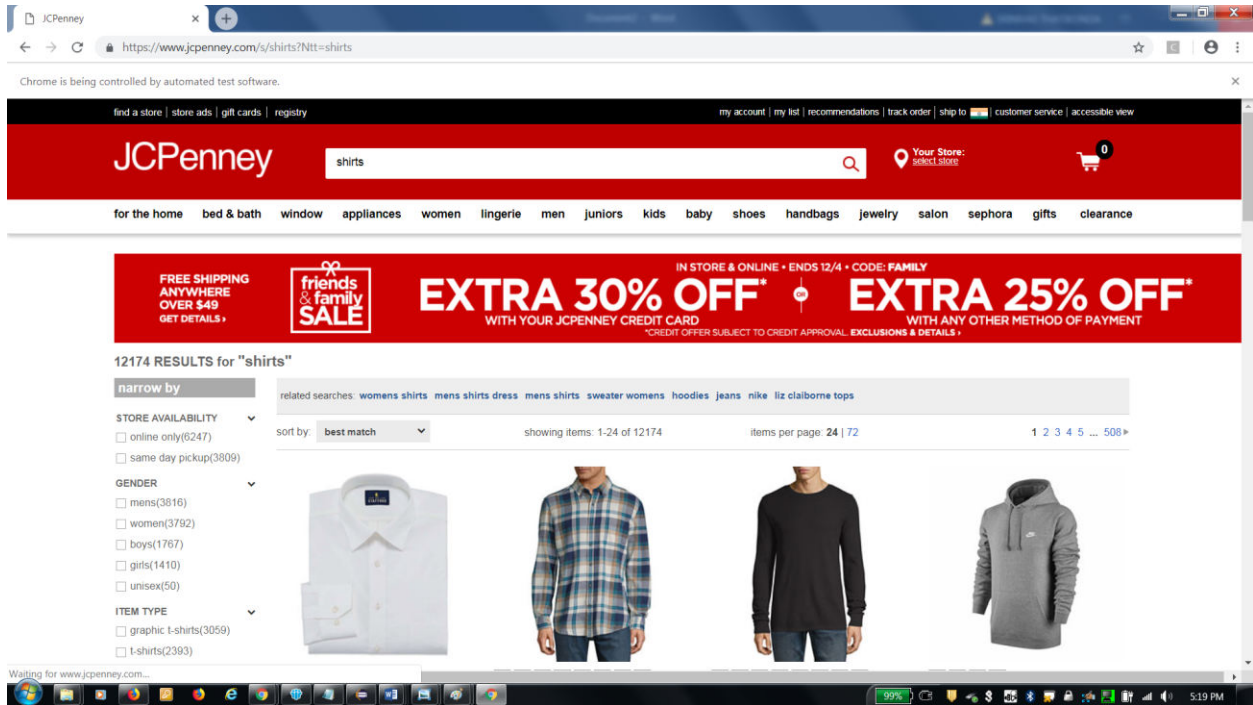
data: x +

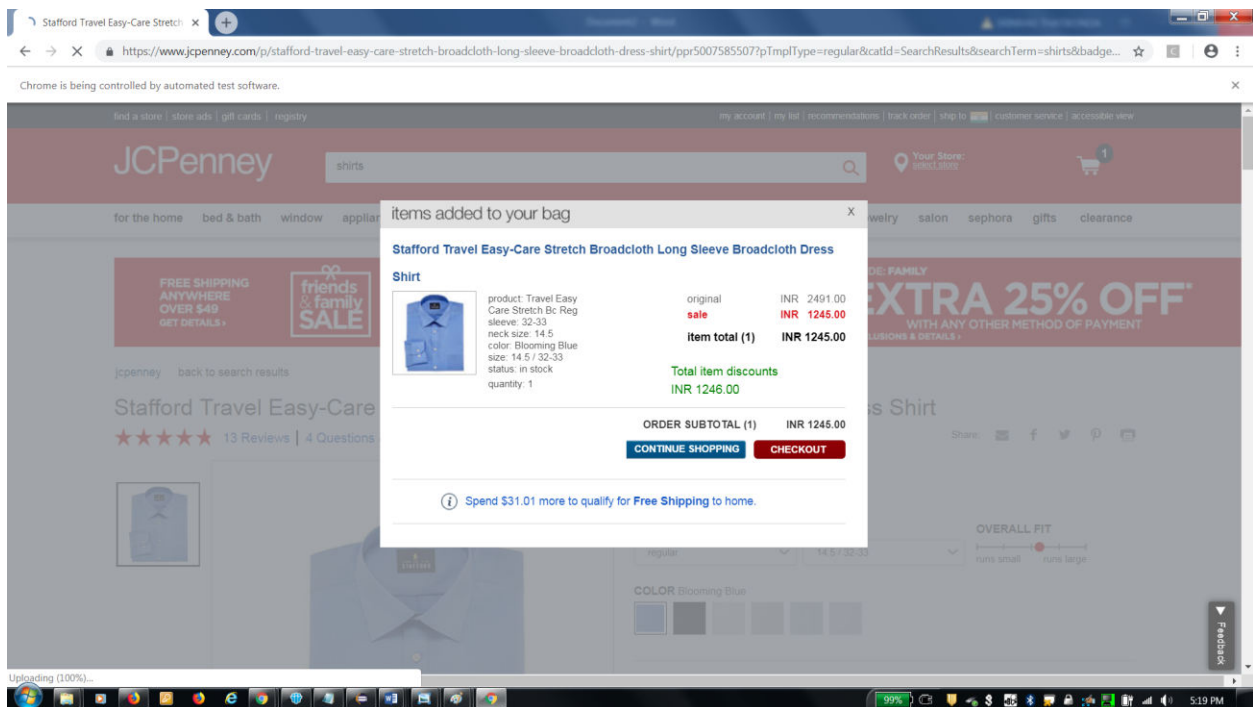
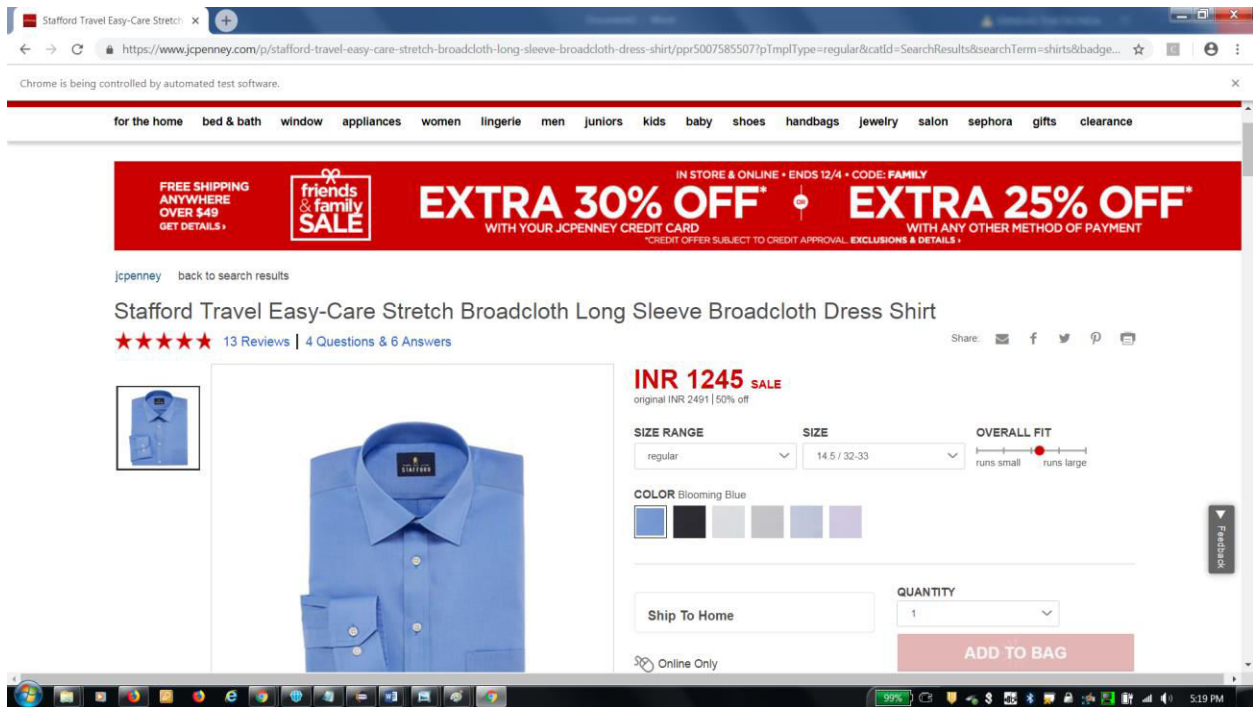
← → X Not secure | data: ☆ ⓘ ⋮

Chrome is being controlled by automated test software.











JCPenney | My Bag

https://www.jcpenny.com/jsp/cart/viewShoppingBag.jsp

Chrome is being controlled by automated test software.

[find a store](#) | [store ads](#) | [gift cards](#) | [registry](#)

[my account](#) | [my list](#) | [recommendations](#) | [track order](#) | [ship to](#) | [customer service](#) | [accessible view](#)

# JCPenney

enter search term or web id

Your Store: select store

for the home bed & bath window appliances women lingerie men juniors kids baby shoes handbags jewelry salon sephora gifts **clearance**

my bag Need help? Call us at 1.800.322.1189


[print my bag](#) [continue shopping](#) [CHECKOUT](#)

C16743124273

## item details

Stafford Travel Easy-Care Stretch Broadcloth Long Sleeve Broadcloth Dress Shirt

Item #531-5848D



Product: Travel Easy-Care Stretch Br. Reg  
Neck Size: 32-33  
Color: Blooming Blue  
Size: 14.5 / 32-33  
Status: In Stock

Quantity: 1

[edit item](#) | [remove](#) | [save for later](#)

original	2491.00
sale	1245.00
Item Total(1)	1245.00
TOTAL:	1245.00
Total Item Discounts	1246.00

Ship to Home

## coupons & rewards

enter coupon or reward code [APPLY](#)

[Sign in and connect your rewards account](#) [VIEW COUPONS](#)

## pricing summary

merchandise subtotal:	INR 1245.00
ORDER SUBTOTAL:	INR 1245.00
<b>Your total discount today</b> <b>INR 1246.00</b>	

[Continue to Checkout to view shipping costs and final order total.](#)

JCPenney | Login

https://www.jcpenny.com/jsp/checkout/secure/signin/signIn.jsp

Chrome is being controlled by automated test software.

# JCPenney

sign in

### returning customers

sign in to your JCPenney.com account

email:

password:

☐ remember me

[forgot your password?](#)

[SIGN IN](#)

### new + guest customers

Check out as a guest. You can still create a JCPenney.com account and set up Express Checkout.

[CONTINUE AS GUEST](#)

Customer Care 1.800.322.1189

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**Flow Information:**

At first, the relative path for chrome driver is set using System.setProperty method and web driver object is created to instantiate Chrome driver and get method is used to invoke the web url 'www.jcpenney.com'. The web application is launched with Search text box and Search button. Using xpath locator with findElement method, the above fields are located and referenced with WebElement object. The method sendKeys is used to enter the text value 'shirts' in search text box and click method is used to click on Search icon button. This resulted to display the list of images to be selected. Then image for first shirt item is located and selected and the navigated to next page where the dropdown filed size and color are selected .On clicking the Add to Bag button a new window is displayed with check button inside frame. The frame is located and switched by using switchTo method. And then click operation is performed on Check out button. Then a new page is loaded displaying another Checkout button. Again this button is located by using Xpath and clicking on this Checkout button has navigated to sign in page.