

Package: Pages

Class: AddToCart

```
package pages;
```

```
import java.time.Duration;
```

```
import org.openqa.selenium.By;
```

```
import org.openqa.selenium.WebDriver;
```

```
public class AddToCart {
```

```
    public void addintocart(WebDriver driver) {
```

```
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));
```

```
        driver.findElement(By.id("add-to-cart-button")).click();
```

```
    }
```

```
}
```

Class: HomePage

```
Package pages;
```

```
import java.time.Duration;

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

public class HomePage {

    By search_bar = By.id("twotabsearchtextbox");

    By submit_button = By.id("nav-search-submit-button");

    // WebElements

    public void SearchProduct(WebDriver driver) {

String URL = "https://www.amazon.in/";
driver.get(URL);
driver.manage().window().maximize();
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));
driver.findElement(search_bar).sendKeys("macbook");
driver.findElement(submit_button).click();

    }
}
```

Class: List of products

```
package pages;
```

```

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.SQLException;

import java.sql.Statement;

import java.util.ArrayList;

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.interactions.Actions;


public class List_of_products {

    //Webelements


    public String[] PrintFirst4Products_Name(WebDriver driver) {

        List<WebElement> macbookList = driver.findElements(By.xpath("//*[@class=\"a-size-medium a-color-base a-text-normal\"]"));

        System.out.println(macbookList.size());

        String arrPro_name[] = new String[macbookList.size()];

        int cnt = 0;

        for(WebElement rb : list_of_earpods) {

            String strname = rb.getText();

            String strname1 = strname.substring(0,20);

            arrPro_name[cnt] = strname1;

```

```

        cnt++;
    }

    for (int indx = 0; indx < 4; indx++) {
        System.out.println(arrPro_name[indx]);
    }

    return arrPro_name;
}

```

```

public String[] PrintFirst4Products_Price(WebDriver driver) {

    List<WebElement> list_of_price = driver.findElements(By.xpath("//*[@class=\"a-price-whole\"]"));

    System.out.println(list_of_price.size());
    String arrPro_price[] = new String[list_of_price.size()];
    int cont=0;
    for(WebElement rb : list_of_price) {
        String strname = rb.getText();
        strname = strname.replace(", ", "");
        arrPro_price[cont] = strname;
        cont++;
    }
    System.out.println("printing price ");
    for (int indx = 0; indx < 4; indx++) {
        System.out.println(arrPro_price[indx]);
    }

    return arrPro_price;
}

```

```

    public void ValidateListofProducts(WebDriver driver, String [] arrPro_name , String [] arrPro_price
    ){

//      String[] arrPro_name = PrintFirst4Products_Name(driver);
//      String[] arrPro_price =

//          database connection
          String connstring = "jdbc:mysql://localhost:3306/project";
          String strquery = "select * from macbook ";

          System.out.println(".....");

          String arrPro_namefromDB[] = new String[4];
          String arrPro_pricefromDB[] = new String[4];

          try {

              Connection conn = DriverManager.getConnection(connstring,"root","root");
              Statement statement = conn.createStatement();
              ResultSet rs = statement.executeQuery(strquery);
//          System.out.println(rs.next());

              int x=0;
              while(rs.next()) {

                  System.out.println(rs.getString(2)+" "+rs.getString(3)+" "+rs.getString(1));

                  arrPro_namefromDB[x] = rs.getString(2);
                  arrPro_pricefromDB[x] = rs.getString(3);

                  x++;

              }

              } catch (SQLException e) {

// TODO Auto-generated catch block

```

```

        e.printStackTrace();
    }

    System.out.println("printing arr_price list");

//    for (int indx = 0; indx < 4; indx++) {
//
//        if (arrPro_name[indx].equals(arrPro_namefromDB[indx]) &&
//            (arrPro_price[indx].equals(arrPro_pricefromDB[indx]))) {
//
//            System.out.println(arrPro_name[indx]+ " "+"product
//            matches");
//
//
//
//        }else {
//            System.out.println(arrPro_name[indx]+" "+"product doesnt matches");
//        }
//
//    }

    for (int indx = 0; indx < 4; indx++) {

        Boolean flag=false;

        for(int j=0; j<4; j++) {

            if (arrPro_name[indx].equals(arrPro_namefromDB[j]) &&
            (arrPro_price[indx].equals(arrPro_pricefromDB[j]))) {

//                System.out.println(arrPro_name[indx]+ "
//                "+"product matches");

                flag=true;

                break;

            }

//            System.out.println(arrPro_name[indx]+" "+"product doesnt
//            matches");

        }

    }

```

```

//                boolean flag = false;

                if (flag==true) {

                        System.out.println(arrPro_name[indx]+ " "+"product
matches");
//                ClickOnProduct(driver);

                }else {

                        System.out.println(arrPro_name[indx]+" "+"product doesnt
matches");

                }

        }

```

```

        System.out.println("everything working and fine");

```

```

}

```

```

        public void ClickOnProduct(WebDriver driver) {

//                Actions action = new Actions(driver);

//                ArrayList<String>Win_List  = new ArrayList<String>(driver.getWindowHandles());

//                action.keyDown(Keys.CONTROL).build().perform();

```

```

        driver.findElement(By.xpath("//*[contains(text(),\"2020 Apple MacBook
        A\")]")).click();
//    action.keyUp(Keys.CONTROL).build().perform();

    ArrayList<String>Win_List1 = new ArrayList<String>(driver.getWindowHandles());

    driver.switchTo().window(Win_List1.get(0));

    driver.close();

    driver.switchTo().window(Win_List1.get(1));

}

}

```

Package:TestCase

Class:Testcases

```

package testCases;

import java.time.Duration;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import pages.AddToCart;
import pages.HomePage;

```



```
import pages.List_of_products;
```

```
public class TestCases {
```

```
    public void TestPrintListOfProducts() {
```

```
        //    driver
```

```
        List_of_products listPage = new List_of_products ();
```

```
        HomePage home = new HomePage();
```

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

```
        driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));
```

```
        home.SearchProduct(driver);
```

```
        listPage.PrintFirst4Products_Name(driver);
```

```
        listPage.PrintFirst4Products_Price(driver);
```

```
        driver.close();
```

```
    }
```

```
    public void ValidateListOfProducts() {
```

```
        //    driver
```

```
        List_of_products listPage = new List_of_products ();
```

```
        HomePage home = new HomePage();
```

```

WebDriver driver = new ChromeDriver();
driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));

    home.SearchProduct(driver);

    listPage.ValidateListofProducts(driver, listPage.PrintFirst4Products_Name(driver),
listPage.PrintFirst4Products_Price(driver));
//    listPage.ClickOnProduct(driver);
//    AddtoCart

    driver.close();

}

```

```

public void clickonproducts() {
    WebDriver driver = new ChromeDriver();
    driver.manage().timeouts().implicitlyWait(Duration.ofSeconds(5));

    HomePage home =new HomePage();
    List_of_products listpage = new List_of_products ();
    AddToCart cart = new AddToCart();

    home.SearchProduct(driver);
listpage.ClickOnProduct(driver);

cart.addintocart(driver);

```

```
//      cart.viewCart(driver);
```

```
        driver.close();
```

```
}
```

```
}
```

Class:TestExecutionn

```
package testCases;
```

```
public class TestExecutionn {
```

```
public static void main(String[] args) {  
    TestCases testCases = new TestCases();  
    testCases.TestPrintListOfProducts();  
    testCases.ValidateListOfProducts();  
    testCases.clickonproducts();  
    }  
  
}
```