

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();
//        driver.findElement(By.xpath("//*[@id=\"attach-close_sideSheet-link\"]")).click();
//        driver.findElement(By.xpath("//*[@id=\"attach-view-cart-button-form\"]")).click();

    }

}
```

Class:PageHome

```
package Pages;

import java.time.Duration;

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

public class PageHome {

    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("earpods");
        driver.findElement(submit_button).click();

    }

}
```

Class:ProductListPage

```
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 ProductListPage {
```

```
    //Webelements
```

```
    public String[] PrintFirst4Products_Name(WebDriver driver) {
```

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

```
        System.out.println(list_of_earpods.size());
```

```
        String arrPro_name[] = new String[list_of_earpods.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/amazon";
```

```
String strquery = "select * from earpods ";
```

```
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(),\"boAt Airdopes 141 Bl\")]")).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 TestCase;
```

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

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

```
import org.openqa.selenium.chrome.ChromeDriver;
```



```
import Pages.AddToCart;

import Pages.PageHome;

import Pages.ProductListPage;


public class TestCases {


    public void TestPrintListOfProducts() {


//    deiver
        ProductListPage listPage = new ProductListPage();
        PageHome home = new PageHome();
        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() {
```

```

//    deiver
    ProductListPage listPage = new ProductListPage();
    PageHome home = new PageHome();
    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));

    PageHome home =new PageHome();
    ProductListPage listpage = new ProductListPage();
    AddToCart cart = new AddToCart();

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

```

```
cart.addintocart(driver);
```

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

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

```
}
```

```
}
```

Class:TestExecutive

```
package TestCase;
```

```
public class TestExecution {
```

```
    public static void main(String[] args) {
```

```
        TestCases testCases = new TestCases();
```

```
        testCases.TestPrintListOfProducts();
```

```
        testCases.ValidateListOfProducts();
```

```
        testCases.clickonproducts();
```

```
    }
```

```
}
```