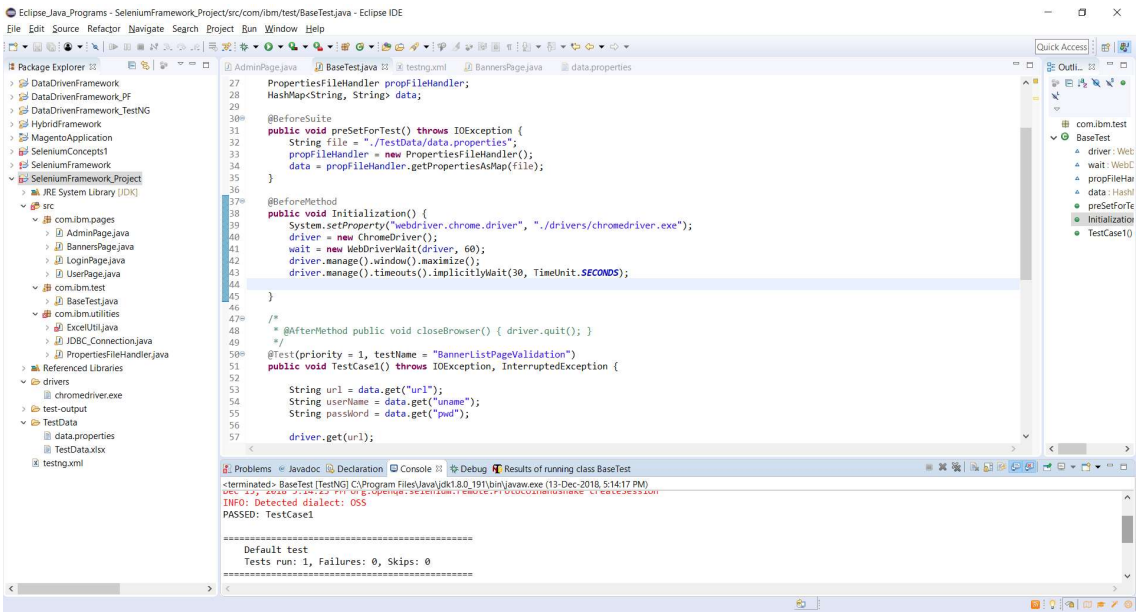
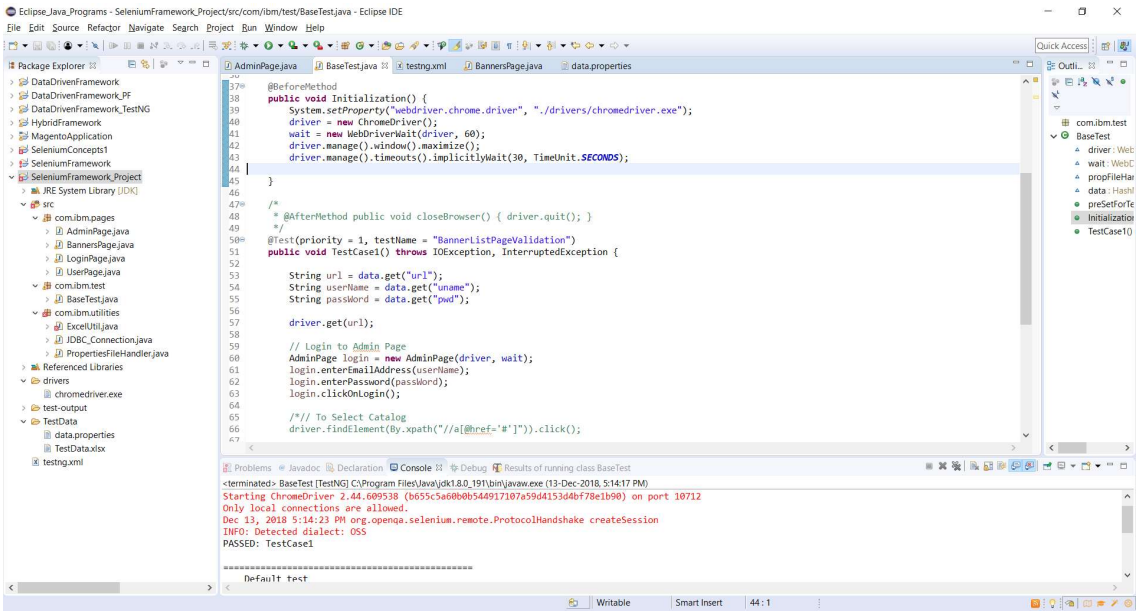
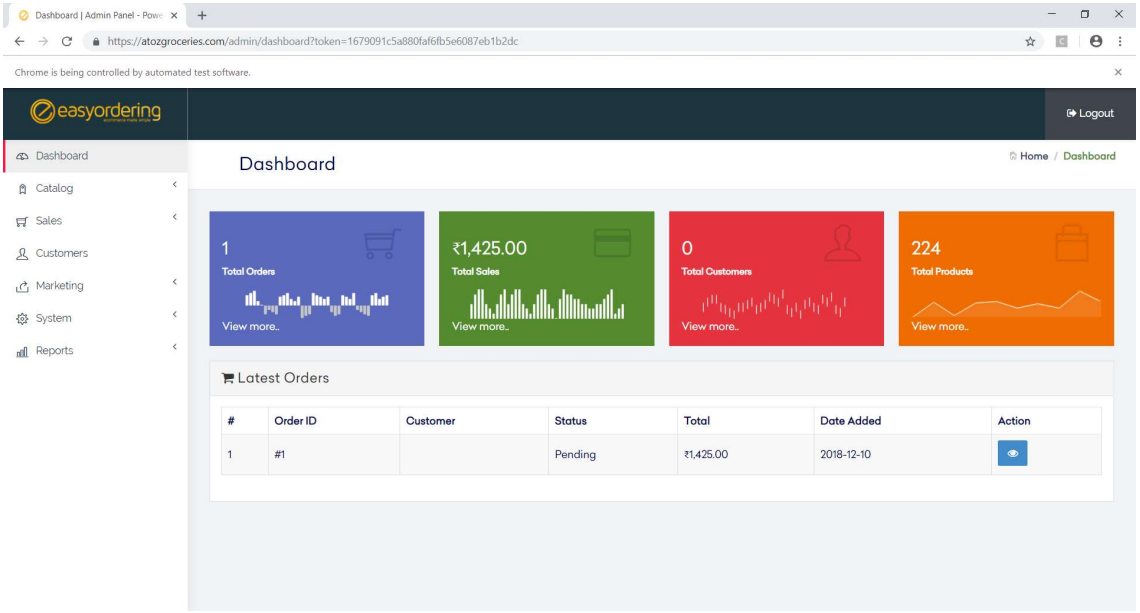
Test case Solution:

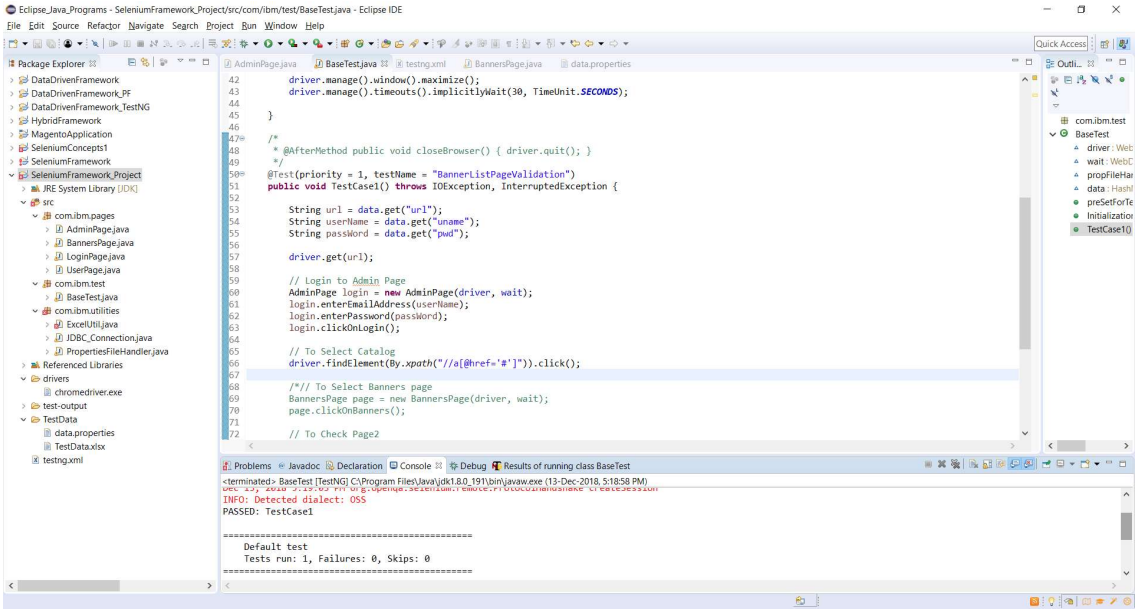
1. Login 2 Admin portal :

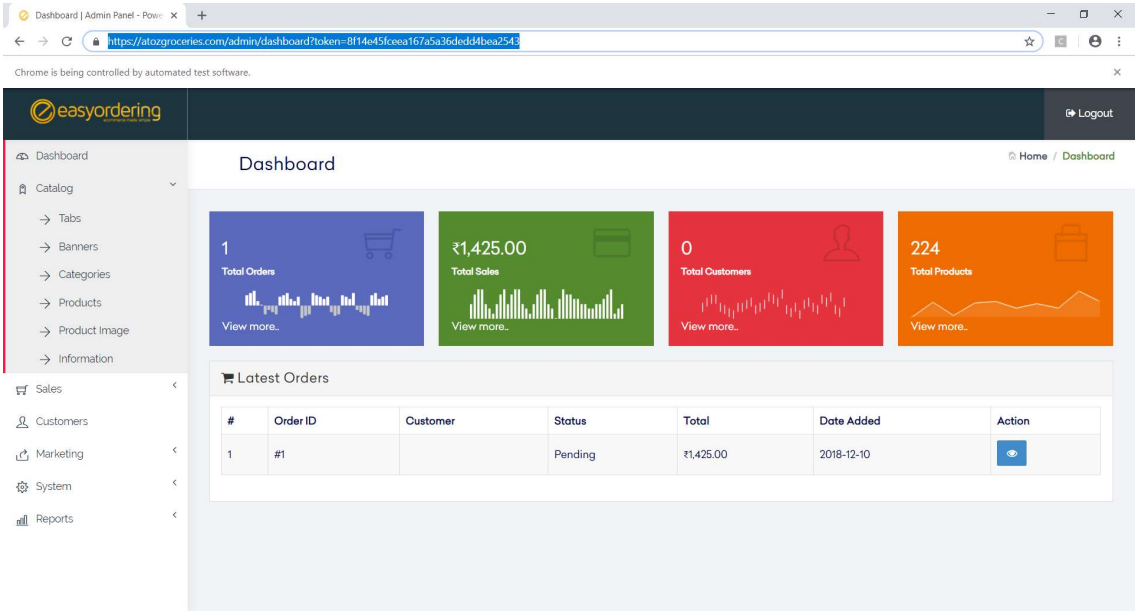




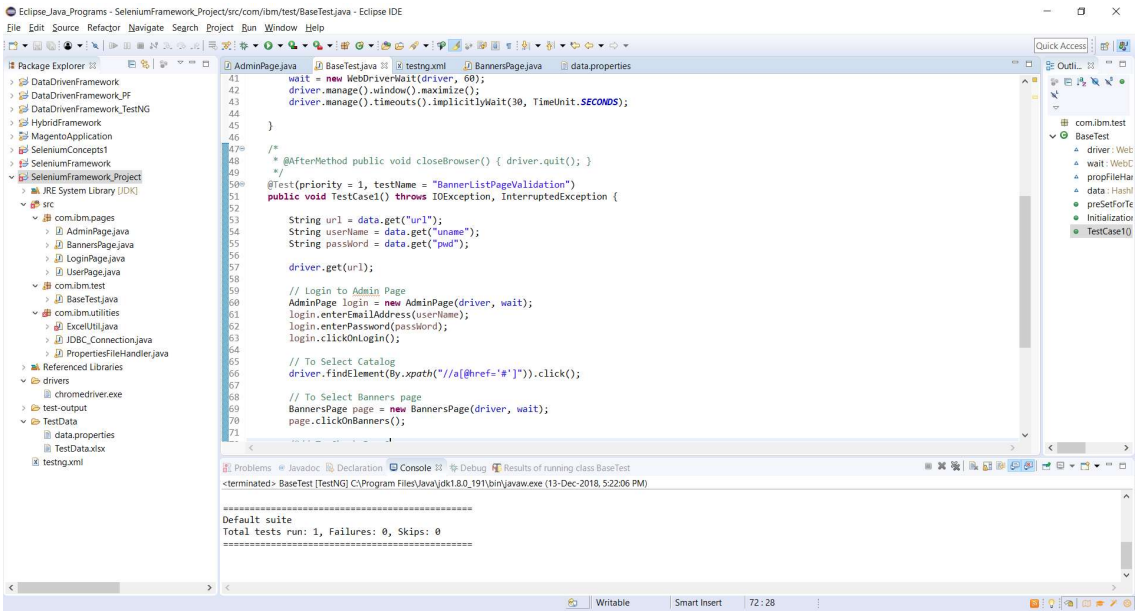


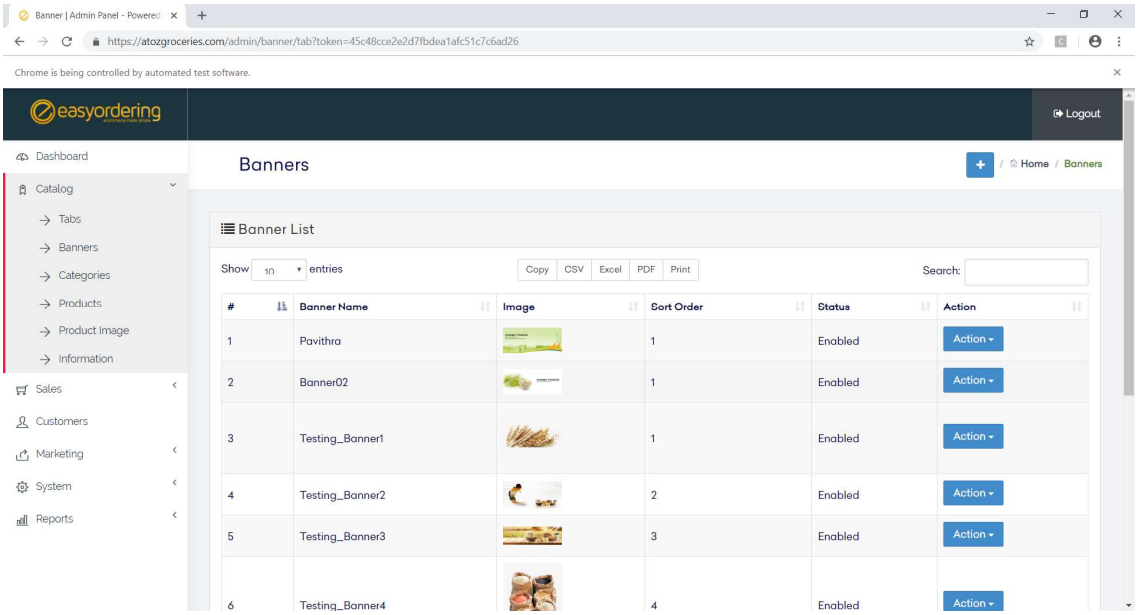
2. Select Catalog



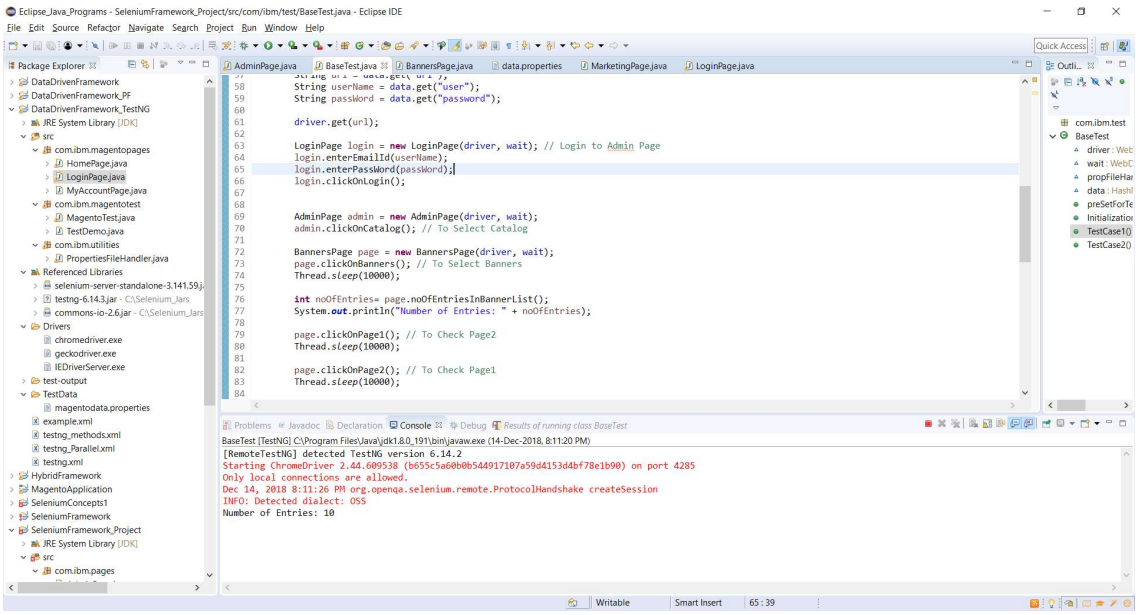


3. To Select Banners

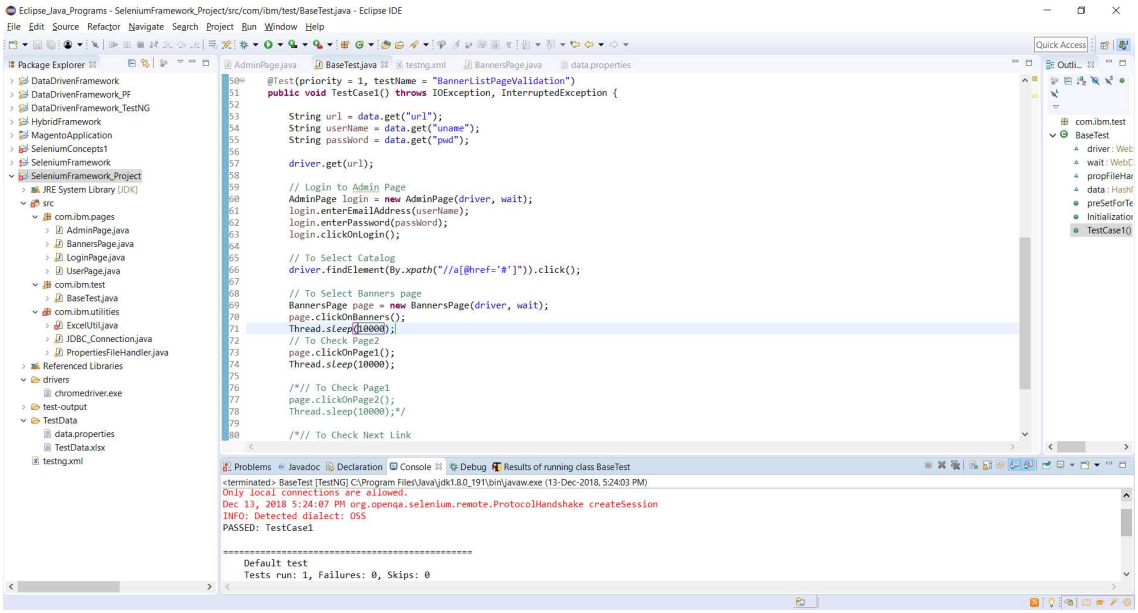


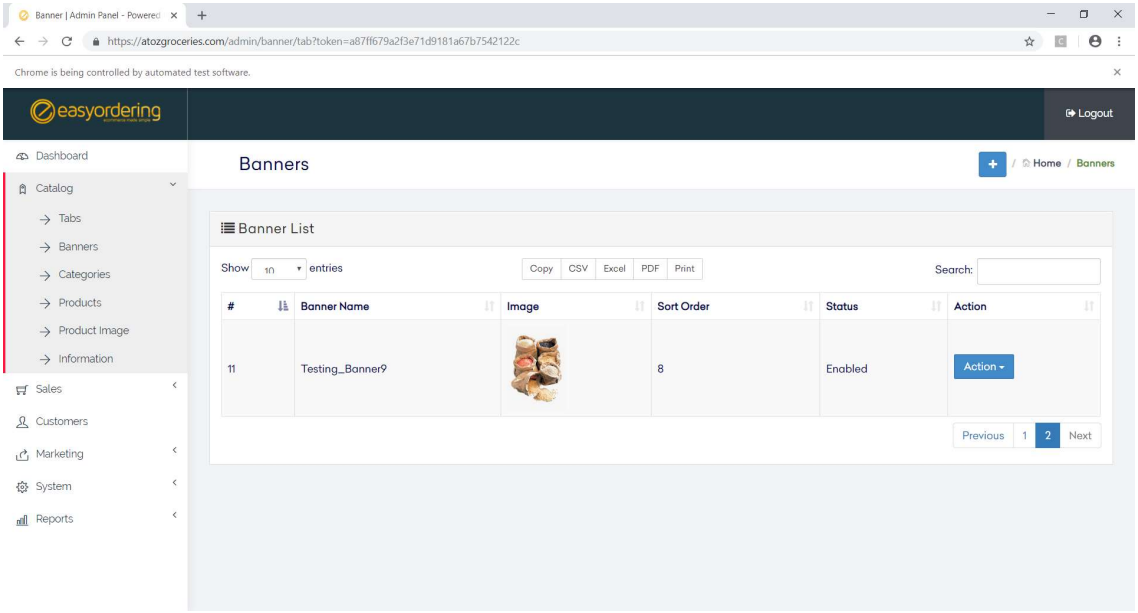


4. To show number of entries in banner List

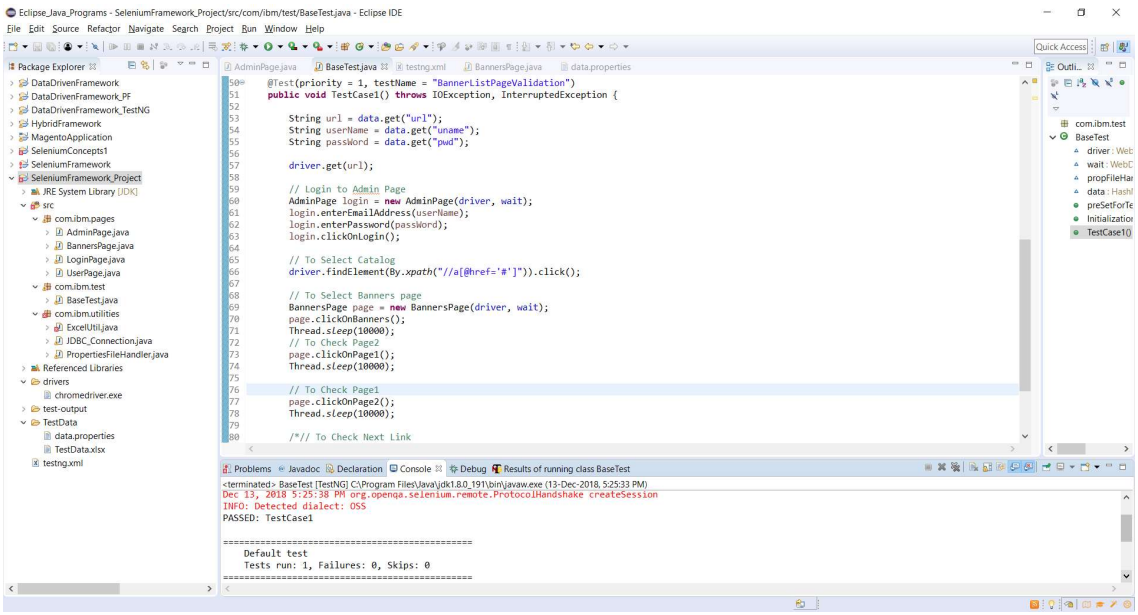


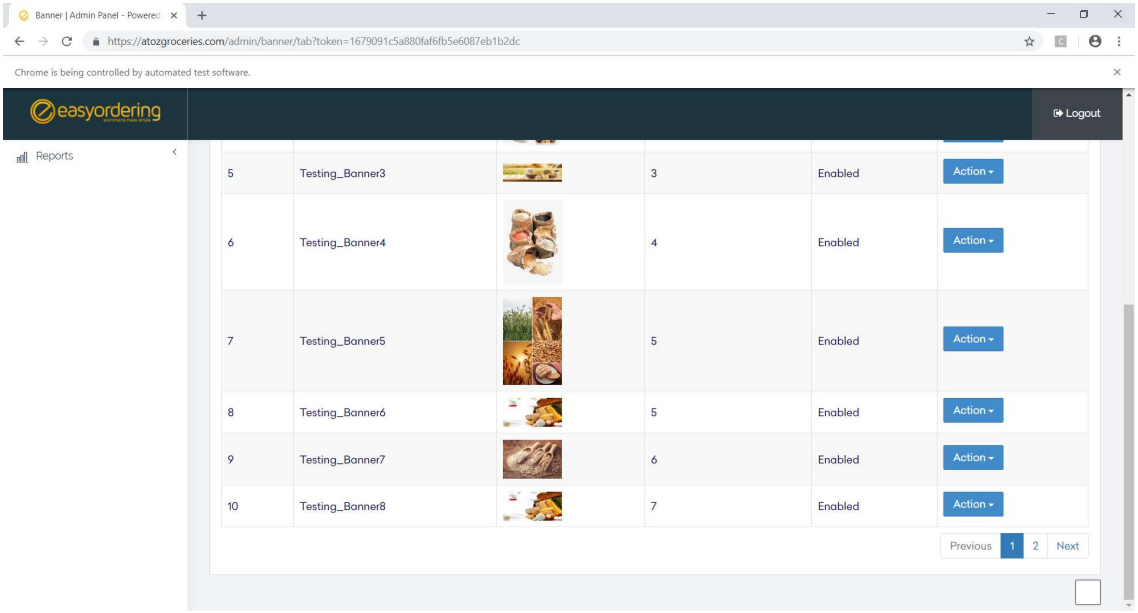
5. To check Page number is working or not(Fetching Page number link-2)



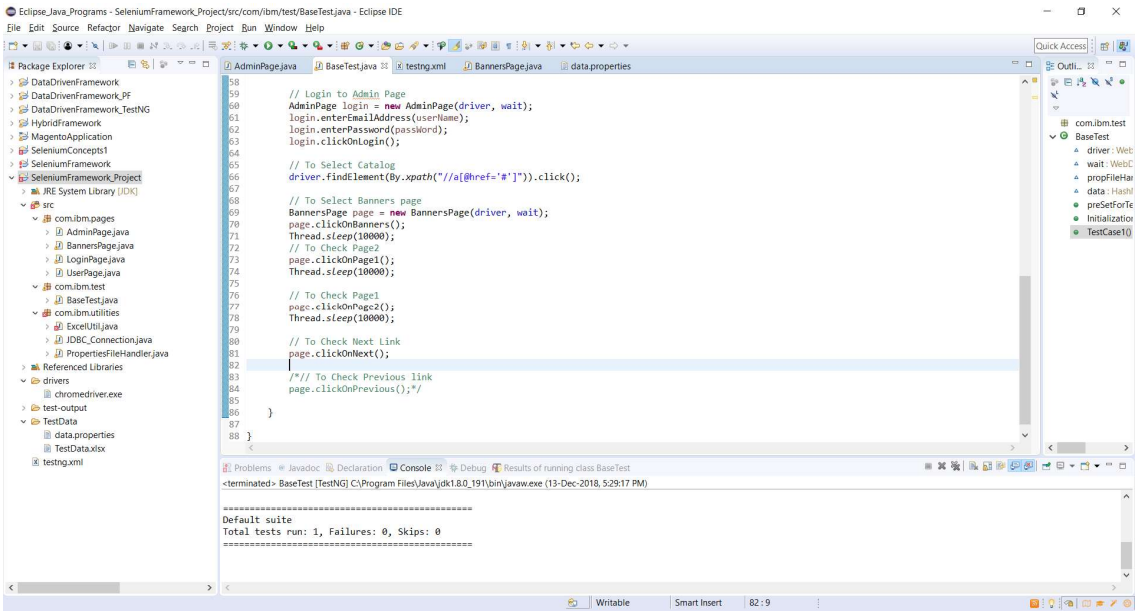


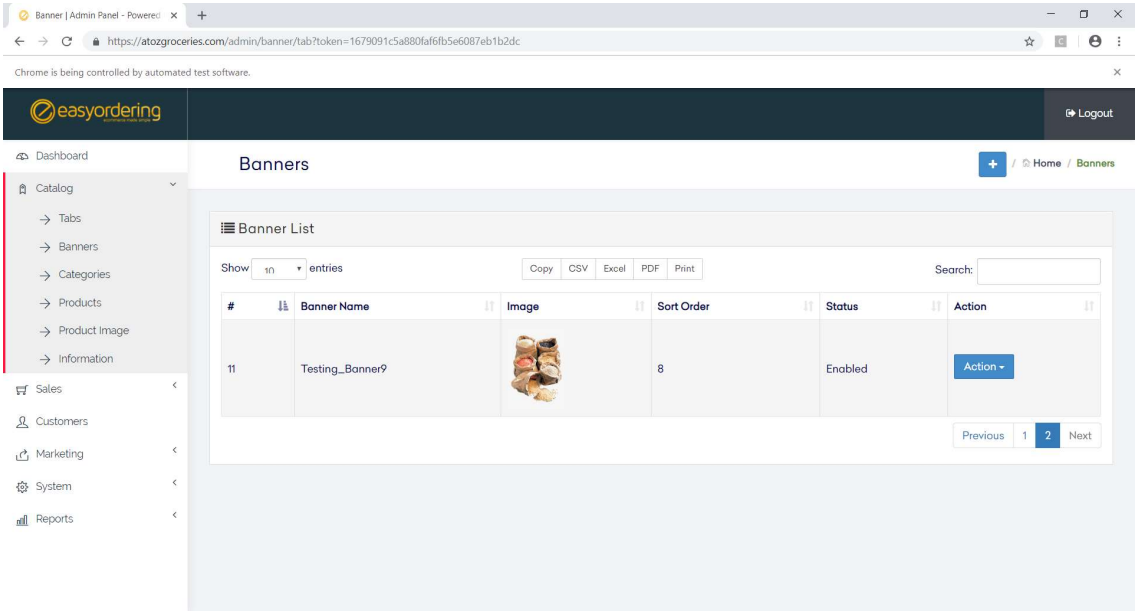
6. To check Page number is working or not(Fetching Page number link-1)



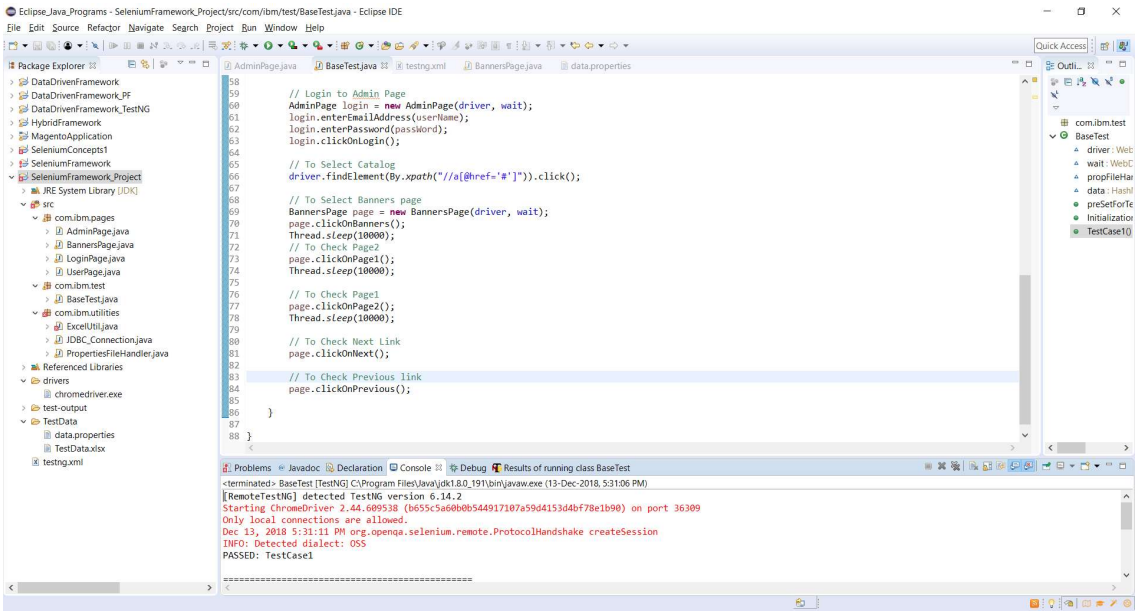


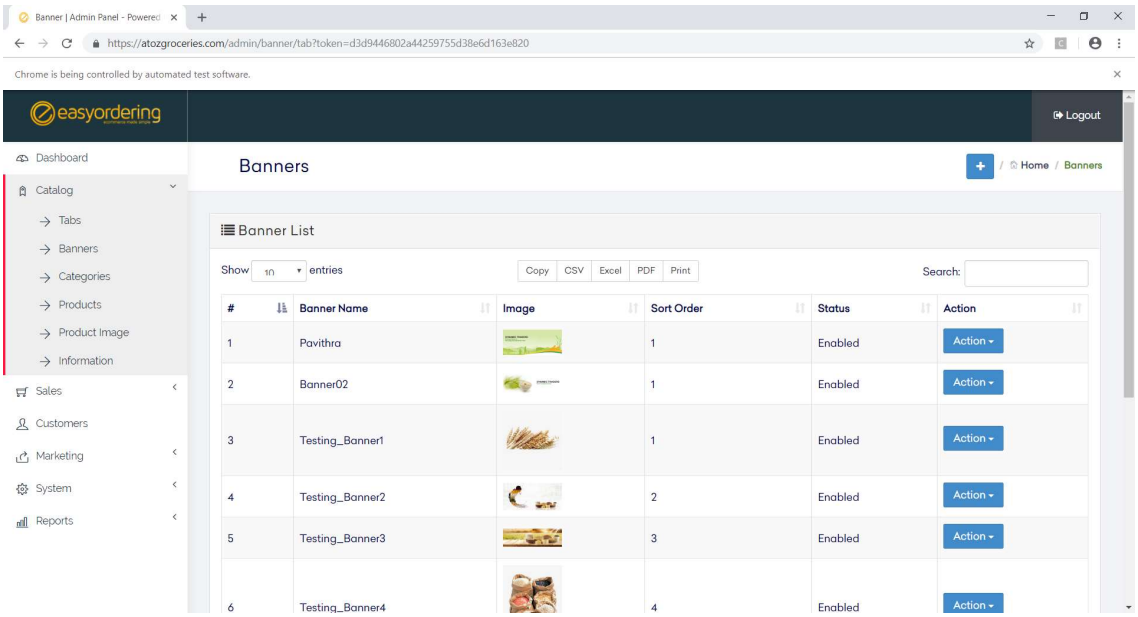
7. Fetching Pagenumber 1 again to test Next Link





8. To check Previous Link





BaseTest.java:

```
package com.ibm.test;


import java.io.IOException;

import java.util.HashMap;

import java.util.concurrent.TimeUnit;
```

```
import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.support.ui.WebDriverWait;
import org.testng.Assert;
import org.testng.AssertJUnit;
import org.testng.annotations.AfterMethod;
import org.testng.annotations.BeforeMethod;
import org.testng.annotations.BeforeSuite;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;

import com.ibm.pages.AdminPage;
import com.ibm.pages.BannersPage;
import com.ibm.pages.LoginPage;
import com.ibm.pages.MarketingPage;
import com.ibm.utilities.ExcelUtil;
import com.ibm.utilities.PropertiesFileHandler;

public class BaseTest {

	WebDriver driver;
	WebDriverWait wait;
	PropertiesFileHandler propFileHandler;
	HashMap<String, String> data;

	@BeforeSuite
	public void preSetForTest() throws IOException {
		String file = "./TestData/data.properties";
		propFileHandler = new PropertiesFileHandler();
```

```
        data = propFileHandler.getPropertiesAsMap(file);
}

@BeforeMethod
public void Initialization() {
        System.setProperty("webdriver.chrome.driver", "./drivers/chromedriver.exe");
        driver = new ChromeDriver();
        wait = new WebDriverWait(driver, 60);
        driver.manage().window().maximize();
        driver.manage().timeouts().implicitlyWait(30, TimeUnit.SECONDS);

}

/*
 * @AfterMethod public void closeBrowser() { driver.quit(); }
 */

@Test(priority = 1, testName = "BannerListPageValidation")
public void TestCase1() throws IOException, InterruptedException {

        String url = data.get("url");
        String userName = data.get("user");
        String passWord = data.get("password");

        driver.get(url);

 LoginPage login = new LoginPage(driver, wait); // Login to Admin Page
        login.enterEmailId(userName);
        login.enterPassWord(passWord);
        login.clickOnLogin();
```

```
        AdminPage admin = new AdminPage(driver, wait);
        admin.clickOnCatalog(); // To Select Catalog

        BannersPage page = new BannersPage(driver, wait);
        page.clickOnBanners(); // To Select Banners
        Thread.sleep(10000);

        int noOfEntries= page.noOfEntriesInBannerList();
        System.out.println("Number of Entries: " + noOfEntries);

        page.clickOnPage1(); // To Check Page2
        Thread.sleep(10000);

        page.clickOnPage2(); // To Check Page1
        Thread.sleep(10000);

        page.clickOnNext(); // To Check Next Link

        page.clickOnPrevious(); // To Check Previous link

    }


            }

}
```

AdminPage.java

```
package com.ibm.pages;

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

```java
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.How;
import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.WebDriverWait;

public class AdminPage {


	@FindBy(xpath="//*[@name='email']")
	WebElement emailEle;

	@FindBy(xpath="//*[@name='pword']")
	WebElement passwordEle;

	@FindBy(xpath="/html/body/div/div/div/div[2]/form/button")
	WebElement loginEle;

	WebDriverWait wait;
	WebDriver driver;

	public AdminPage(WebDriver driver,WebDriverWait wait) {
		PageFactory.initElements(driver, this);
		this.driver=driver;
		this.wait=wait;
	}

	public void  enterEmailId(String user)
	{
		emailEle.sendKeys(user);

	}

	public void enterPassWord(String password)
	{
		passwordEle.sendKeys(password);

	}

	public void clickOnLogin()
	{
	  loginEle.click();
	}



}
```

BannersPage.java:

```java
package com.ibm.pages;

import java.util.List;

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

```java
import org.openqa.selenium.support.FindAll;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.WebDriverWait;

public class BannersPage {

	WebDriverWait wait;
	WebDriver driver;

	public  BannersPage(WebDriver driver,WebDriverWait wait) {
		PageFactory.initElements(driver, this);
		this.driver=driver;
		this.wait=wait;
	}

	//To select Banners from Catalog
	@FindBy(xpath="//*[@id='side-menu']/li[2]/ul/li[2]/a")
	WebElement bannersEle;

	//To Show 10 entries in Banner Page- I am not sure of this so below code i
have written just to fetch row size

	@FindAll(@FindBy(xpath = "//table[@id='dataTableExample2']/tbody/tr"))
	List<WebElement> entriesInPage;

	//To check Page number is working or not(Fetching Page number link-2)

	@FindBy(xpath="//*[@id='dataTableExample2_paginate']/ul/li[3]/a")
	WebElement page2Ele;

	//To check Page number is working or not(Fetching Page number link-1)

	@FindBy(xpath="//*[@id='dataTableExample2_paginate']/ul/li[2]/a")
	WebElement page1Ele;

	// To check Next Link
	@FindBy(xpath="//*[@id='dataTableExample2_next']/a")
	WebElement nextEle;

	// To check Previous Link
		@FindBy(xpath="//*[@id='dataTableExample2_previous']/a")
		WebElement PreviousEle;


	public void clickOnBanners()
	{
		bannersEle.click();
	}

	public Integer noOfEntriesInBannerList() {
		int noOfEntries = entriesInPage.size();
		return noOfEntries ;
	}

	public void clickOnPage1()
	{
		page2Ele.click();
	}
```

```
	public void clickOnPage2()
	{
		page1Ele.click();
	}
	public void clickOnNext()
	{
		nextEle.click();
	}

	public void clickOnPrevious()
	{
		PreviousEle.click();
	}

}
```

Login page

```
package com.ibm.magentopages;

import java.util.List;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.support.FindAll;
import org.openqa.selenium.support.FindBy;
import org.openqa.selenium.support.How;
import org.openqa.selenium.support.PageFactory;
import org.openqa.selenium.support.ui.ExpectedConditions;
import org.openqa.selenium.support.ui.WebDriverWait;

public class LoginPage {

	@FindBy(id="email")
	WebElement emailEle;

	@FindBy(how=How.ID,using="pass")
	WebElement passEle;

	@FindBy(xpath="//button[@type='submit']")
	WebElement loginEle;

	By errorMsgLoc =By.className("error-msg");

	//Click on Forget Your Password HyperLink

	@FindBy(xpath="//a[@href='https://account.magento.com/customer/account/forg
otpassword/']")
	WebElement ForgotYourPassword;

       //Submit
   @FindBy(xpath="//button[@type='submit']")
   WebElement submitButton;

// Re -enter email id to get the password
   @FindBy(xpath="//*[@name='email']")
   WebElement enterYourEmailEle;
```

```
//Error message
By requiredFieldErrorMessage =By.className("validation-advice");

//Error message to give valid mail id
By enterValidEmailAddress=By.className("validation-advice");

    WebDriverWait wait;
    WebDriver driver;

    public LoginPage(WebDriver driver,WebDriverWait wait) {
           PageFactory.initElements(driver, this);
           this.driver=driver;
           this.wait=wait;
    }

    public void enterEmailAddress(String userName)
    {
           emailEle.sendKeys(userName);
    }

    public void enterPassword(String password)
    {
           passEle.sendKeys(password);
    }

    public void clickOnLogin()
    {
           loginEle.click();
    }

    public String getPageSourceForInvalidErrorMessage()
    {

    wait.until(ExpectedConditions.presenceOfElementLocated(errorMsgLoc));

           return driver.getPageSource();
    }

    //Click on Forgot your password hyperLink

    public void  ForgotYourPassword()

    {
           ForgotYourPassword.click();
    }

    // Click on Submit
    public void submitButton()
    {
           submitButton.click();
    }


    //To get Error message "this is a Required Field.
    public String getPageSourceToRequiredFieldErrorMessage()
    {
```

```
	wait.until(ExpectedConditions.presenceOfElementLocated(requiredFieldErrorMe
ssage));

		return driver.getPageSource();
	}

	//Enter your email id
		public void enterYourEmailEle(String enteremailaddress)
		{
			enterYourEmailEle.sendKeys(enteremailaddress);
		}

	//To get Error message after Submit button
		public String getPageSourceToEnterValidEmailErrorMessage()
	{

	wait.until(ExpectedConditions.presenceOfElementLocated(enterValidEmailAddre
ss));

		return driver.getPageSource();
	}
}
```

Data.properties file:

```
url=https://atozgroceries.com/admin
user=demo@atozgroceries.com
password=456789
```