Test Automation Lab

Experiment -01

Test cases for Homepage of an e-commerce application

	Α	В	С	D	Е	F	G	Н	1
1	Sno.	Feature	Precondition	Test Method	Browser	Test Case Description	Expected Results	Actual Results	Pass/Fail
2	1	Launch E-commerce Web Application	Internet Connectivity Should be There	Automation	Chrome	Search and Clickon E-commerce App URL	Web App gets Launched	Web App Launched successfully	Pass
3	2	Verify E-commerce Application URL	Web Application Should be Running	Manual	Chrome	Check the Sign-in button is Available and Working	Sign-in Button should be there	Sign-in Button present near the search bar	Pass
4	3	Verify E-commerce Application Items	Web Application Should be Running	Manual	Chrome	Check Search Bar is Present	Search Bar Should be There	Search Bar Present on Main page	Pass
5	4	Verify E-commerce Application Items	Web Application Should be Running	Manual	Chrome	Check Return and Order link is present	Return and Order Link Should be there	Return and Order Link present on Main page	Pass
6	5	Verify E-commerce Application Items	Web Application Should be Running	Manual	Chrome	Check the Cart Link is Present	Cart link should be present	Cart Link present on Main page	Pass
7	6	Verify E-commerce Application Items	Web Application Should be Running	Manual	Chrome	Check if product Category is Present	Product Category Should be present	Product Category is present on Home page	Pass
8	7	Verify the Products Category Link	Web Application Should be Running	Automation	Chrome	Click on the Product Category Link	Product List should Open	Product List Opens	Pass
9 10									

Test cases for Sign-in page of an e-commerce application

	Α	В	С	D	Е	F G		Н	1
1	Sno.	Feature	Precondition	Test Method	Browser	Test Case Description	Expected Results	Actual Results	Pass/Fail
2	1	Login	Sign-in button should be present	Manual	Chrome	Search for Sign-in button	Login Page should appear	Login Page opened successfully	Pass
3	2	Input Box for email id or mobile number available	Login Page should be opened	Manual	Chrome	Check Email id/Mobile No. Textbox is present	Username/mobile no textbox should be there	Username/mobile no textbox is present	Pass
4	3	Default Curson present upon I visiting login page	Input box for email idshould appear	Manual	Chrome	Check for presence of default cursor I in the input field	By-de fault cursor should re main on use mame Textbox	By-default cursor is present on username Textbox	Pass
5	4	Continue button	Login Page should be opened	Manual	Chrome	Check if "Continue" Option is available or not	Button should be available	Button is available	Pass
6	5	Input Box recieving input – L Mobile Number	Login Page should be opened	Manual	Chrome	Input a number either less than or greater than 10 digits	Error should oocur	Error occurs – Incorrect Mobile Number	Pass
7	6	Input Box recieving input – L Mobile Number	Login Page should be opened	Manual	Chrome	Input a 10 digit number	Number should be accepted	Number is accepted	Pass
8	7	Input Box recieving input – L Email id	Login Page should be opened	Manual	Chrome	Enter an invalid Email id	Error should oocur	Error occurs – Invalid Email id	Pass
9	8	A check box for keeping account always signed in	Login Page should be opened	Manual	Chrome	A checkbox should me there to keep account always signed in	Checkif checkboxfor "keep me signed in" appears or not	Checkbox for "keep me signed in" appears	Pass
10	9	"Greate Account" Button Available	Login Page should be opened	Manual	Chrome	Button for "Create your Amazon Account"	Check if button for "create account" is available	Button for "create account" is available	Pass
11	10	Password field taking inputs. L	Login page should be opened.	Manual	Chrome	Checkwhether the password field is taking inputs or not.	The passowrd field must take input.	The password field is taking input.	Pass
12	11	Login button L	Login page should be opened.	Manual	Chrome	Check if "Log in" button is available or not	Button should be available	Button is available	Pass
13		,	1	1			·	•	

Test cases for searching a product in an e-commerce application

	Α	В	С	D	Е	F	G	Н	1	J	K	L
1	S.No.	Feature	Precondition	Test Method	Browser	Test Case Description	Expected Results	Actual Results	Pass/Fail	Test Time		SW Vers
2	1	Search bar	Home page of the site is open	Manual	Chrome	Check whether search bar is present on the home page or not.	Search bar should be present on the home page.	Search bar is present on the home page.	Pass	###	Atishay	
3	2	Search bar re directing to the searched product's page	Home page of the site is open	Manual	Chrome	Type a product name "Laptop" and press enter.	The search results with "Laptop" should be displayed.	A page with Laptop listed on it is displayed.	Pass			
4	3	List of products matching the current search.	Search result page should be opened.	Manual	Chrome	Check whether the list of products matching the search (in this case Laptop) is present or not.	Laptops available on the site should be displayed.	A list of available Laptops is present	Pass			
5	4	Product image	Search result page should be opened.	Manual	Chrome	Check whether the image of the product is displayed along with the product or not.	An image of the product should be displayed along with each product.	The image of the product is being displayed.	Pass			
6	5	Sort by option	Search result page should be opened.	Manual	Chrome	Check whether option to sort the search results is available or not.	Option to sort the results should be available.	Sort by option is present	Pass			
7	6	Filters for search	Search result page should be opened.	Manual	Chrome	Check whether filters to filter search results are available or not.	Filters should be available.	Filters are available.	Pass			
8	7	Help Section for assistance.	Search result page should be opened.	Manual	Chrome	Check whether a section for Help is present or not.	A section for help should be pre sent.	"Nee d Help?" seaction is present at the bottom of the page.	Pass			
9	8	Help Section for assistance.	Search result page should be opened.	Manual	Chrome	Check whether a textbox is present to post the query or not.	A textbox to write the query should be present	The text box to receive query is present.	Pass			
10	9	Help Section for assistance.	Search result page should be opened.	Manual	Chrome	Check whether a Submit button is present to post the query or not.	A button to Submit the query should be present.	"Submit" button is present just below the text box.	Pass			
11	10	Product review along with the product.	Search result page should be opened.	Manual	Chrome	Check whether the review of the product is available with it or not.	Review stars should be displayed along with the product.	Stars indicating review of each product is displayed.	Pass			
12	11	Multiple options available for the searched product	Search result page should be opened.	Manual	Chrome	Check whether multiple pages option is available or not .	Multiple pages containing multiple option for the prodcut searched is present or not	Multiple pages containing multiple option for the prodcut searched is pre sent	Pass			
13	12	Link to the product.	Search result page should be opened.	Manual	Chrome	Check whether the link to the product being displayed is present or not.	The link to the product should be present.	The name of the product being displayed serves as the link to the product.	Pass			
							-					-

Test cases for payment in an e-commerce application

	A B		С	D	Е	F	G	Н	1		
1	S.No.	Feature	Precondition	Test Method	Browser	Test Case Description	Expected Results	Actual Results	Pass/Fail		
2	1	Check the Page Components	Page should open and "Items in Cart" page should open	Manual	Chrome	Click on "Proceed to checkout" button	Should be Redireced to shipping and paymentpage	Redirece d to shipping and payment page successfully	Pass		
3	2	Validate the Page Components	Application should be open and Shipping and Delivery page should be	Manual	Chrome	Click on "Deliver" Button	Should be Redire ated to select payment	Redirected to Payment option page successfully	Pass		
4	3	Validate the Payment Option	Application should be open and Payments Option page should be open	Manual	Chrome	Click on payment option of your choice	Should review the order Summary	Order Summary is reviewed successfully	Pass		
5	4	Validate the Payment	Application should be open and Payments Option page should be open	Manual	Chrome	Click on Continue Button	Should be Redirected to "Place Order" Page	Redirected to "Place Order" Page	Pass		
6	5	Authenciate the Payment	Application should be open and Place Oder page should be open	Manual	Chrome	Enter the OTP received on registerd	Should give an Confirmation related order details	Confirmation received successfully	Pass		
7	6	Authenciate the Payment	Application should be open and Place Oder page should be open	Manual	Chrome	Enter an Incorrect OTP	Should generate an error and redirect to payments Page	Redirected to Payments Page	Pass		
- 8											

Total Test Cases Count

Description	1	TC Count	TC Passed			
_						
Home Page	9	7	7			
Sign-in		11	11			
Search		13	13			
Payment D	etails	6	6			
Total		37	37			

Experiment - 02 & 03

Build an automation script for registration and login for e-commerce platform

Login to E-commerce platform

```
Activities
           Jan 25 12:37 •
                                            eclipse-work space-Test\_Automation\_Lab\_registration/src/e\_commerce\_login.java-Eclipse\ IDE
        File Edit Source Refactor Navigate Search Project Run Window Help
        □ □ e_commerce_registration.java ② *e_commerce_login.java 🏻
        🤷 Project Explorer 🛭
                                                1⊖ import org.openqa.selenium.By;
        ▶ # Test_Automation_lab_1
                                                   import org.openqa.selenium.WebDriver;
        ▼ 📂 Test_Automation_Lab_registration
                                                5 import org.openqa.selenium.WebElement;
         ▶ 

→ JRE System Library [JavaSE-1.8]
                                                7 import org.openga.selenium.chrome.ChromeDriver;
         ▼ # Src

▼ 

⊕ (default package)

                                                   public class e_commerce_login{
             ▶ 🗓 e_commerce_login.java
                                               11⊖ public static void main(String[] args) throws InterruptedException [[

    e_commerce_registration.java
            De_commerce_login.java
                                               13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
          ▶ ■ Referenced Libraries
                                                         System.setProperty("webdriver.chrome.driver", "/home/atishay/Test Automation Lab/ch
                                                           WebDriver driver=new ChromeDriver();
                                                         driver.navigate().to("https://www.amazon.in/");
                                                         driver.manage().window().maximize();
                                                         WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1") );
                                                         signIn.click();
                                                         WebElement emailAddress = driver.findElement(By.id("ap_email"));
emailAddress.sendKeys("aj13618@gmail.com");
                                                         WebElement continueButton = driver.findElement(By.id("continue"));
```

```
Activities
                                                                                 Jan 25 12:37 •
           eclipse-workspace - Test_Automation_Lab_registration/src/e_commerce_login.java - Eclipse IDE
        File Edit Source Refactor Navigate Search Project Run Window Help

☑ e_commerce_registration.java ☑ *e_commerce_login.java ☒
        ြဲ Project Explorer 🛭
                                                public static void main(String[] args) throws InterruptedException {
                           P & 7 2
        ▶ Selata Test_Automation_lab_1
                                                 13
14
        Barration | Feet_Automation_Lab_registration
                                                          System.setProperty("webdriver.chrome.driver", "/home/atishay/Test Automation Lab/ch
                                                15
16
17
         ▶ M JRE System Library [JavaSE-1.8]
                                                           WebDriver driver=new ChromeDriver();
           driver.navigate().to("https://www.amazon.in/");
driver.manage().window().maximize();
                                                 18
                                                 19

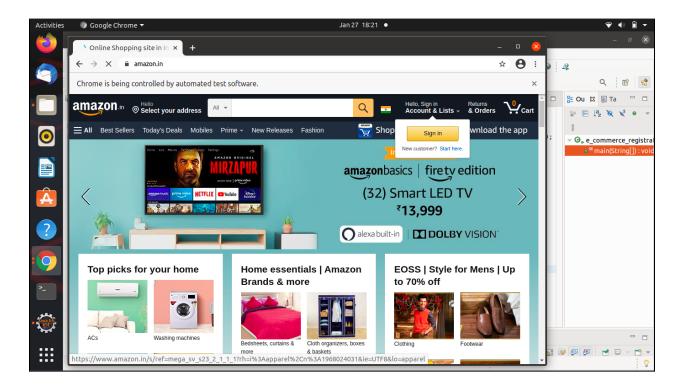
    D e_commerce_login.java

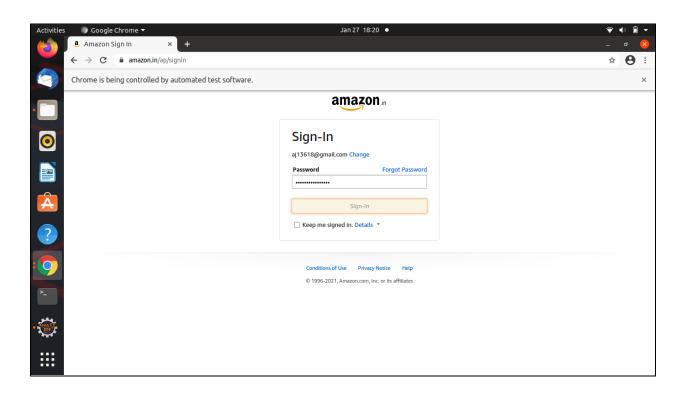
              ▶ ② e_commerce_registration.java
                                                          WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1") );
            ▶ ② e_commerce_login.java
                                                          signIn.click():
                                                23
24
25
26
27

    Referenced Libraries

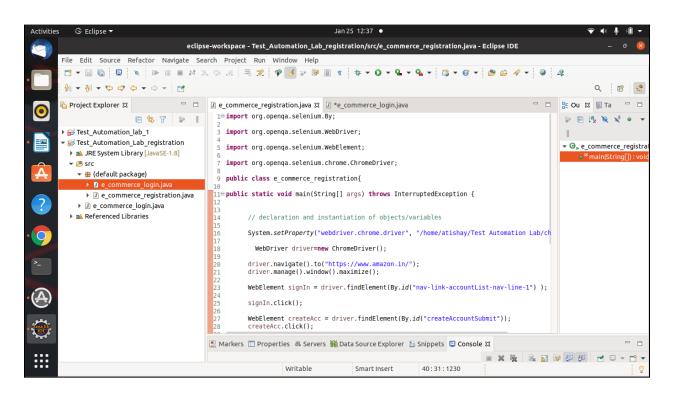
                                                          WebElement emailAddress = driver.findElement(By.id("ap_email"));
emailAddress.sendKeys("aj13618@gmail.com");
                                                          WebElement continueButton = driver.findElement(By.id("continue"));
                                                28
29
30
31
32
33
34
                                                          continueButton.click();
                                                          WebElement password = driver.findElement(By.id("ap_password"));
password.sendKeys");
                                                          WebElement loginButton = driver.findElement(By.id("signInSubmit"));
                                                 35
                                                          loginButton.click();
                                                 38
```

Output





Registration for E-commerce platform



```
Jan 25 12:37 •
                                  eclipse-workspace - Test_Automation_Lab_registration/src/e_commerce_registration.java - Eclipse IDE
    Edit Source Refactor Navigate Search Project Run Window Help
Q 🖺 😭
                                                                                                                                  - □ 🔡 Ou 🛭 🗒 Ta 🕒 🗆
                                □ □ ② e_commerce_registration.java 🏻 ② *e_commerce_login.java
ြဲ Project Explorer 🛭
                                                  driver.navigate().to("https://www.amazon.in/");
driver.manage().window().maximize();
                   E 🕏 7 👂 8
                                                                                                                                           ▶ ₩ Test Automation lab 1
▼ 📂 Test _Automation_Lab_registration
                                                   WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1") );
                                                                                                                                          ▼ Θ<sub>▶</sub> e_commerce_registra
 ▶ 

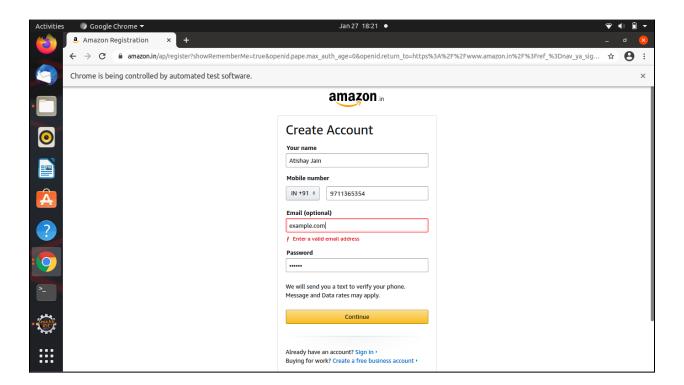
→ JRE System Library [JavaSE-1.8]

→ ## (default package)

                                                   WebElement createAcc = driver.findElement(By.id("createAccountSubmit"));
                                                   createAcc.click():
      ▶ 🗓 e_commerce_login.java
      ▶ ☐ e commerce registration.java
                                                   WebElement enterName = driver.findElement(By.id("ap_customer_name"));
enterName.sendKeys("Atishay Jain");
   ▶ 🗓 e commerce login.iava
 ▶ 

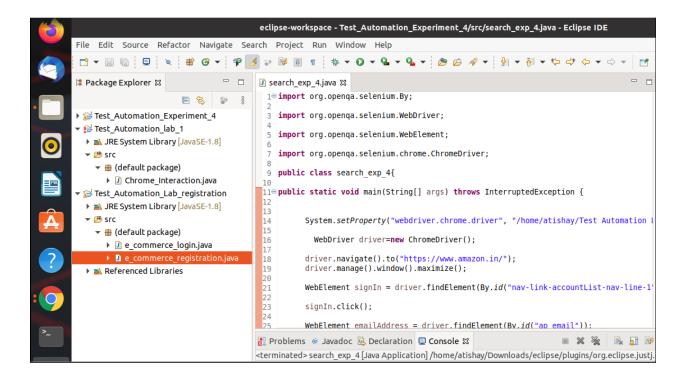
Referenced Libraries
                                                   \label{lement_bound} WebElement enterNumber = driver.findElement(By.id("ap_phone_number")); \\ enterNumber.sendKeys("9711365354"); \\
                                         33
34
35
36
37
38
39
40
41
42
43
44
45
                                                   WebElement enterEmail = driver.findElement(By.id("ap_email"));
enterEmail.sendKeys("example.com");
                                                  WebElement enterPassword = driver.findElement(By.id("ap_password"));
enterPassword.sendKeys("Abc#23");
                                                   WebElement continueButton = driver.findElement(By.id("continue"));
continueButton.click();
                                        46 }
                                        🖺 Markers 🗏 Properties 🚜 Servers 🎁 Data Source Explorer 🔓 Snippets 📮 Console 🛭
                                                                                                                    Writable
                                                                                 Smart Insert
                                                                                                   40:31:1230
```

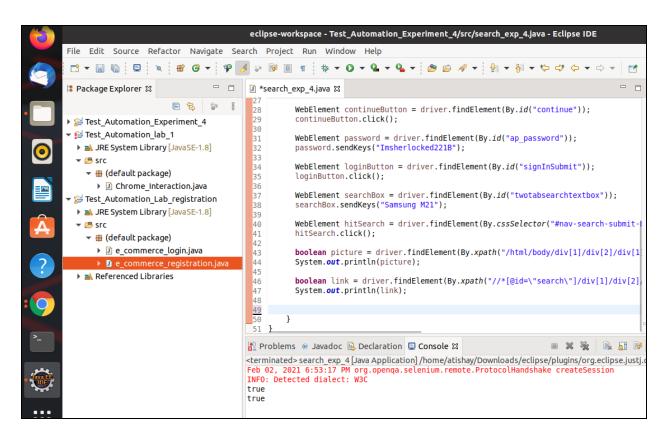
Output

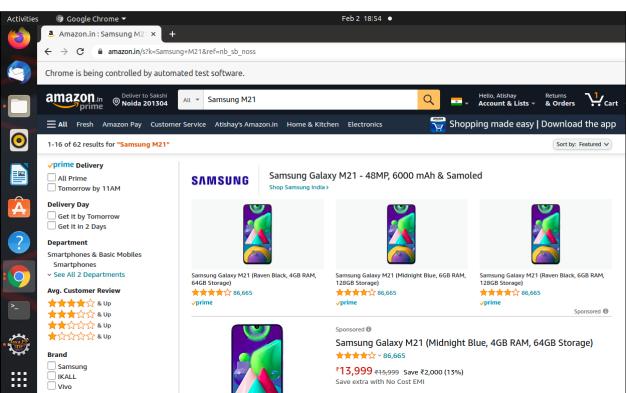


Experiment - 04

Build an automation script for searching the article and validate the searching of the article.







Experiment - 05

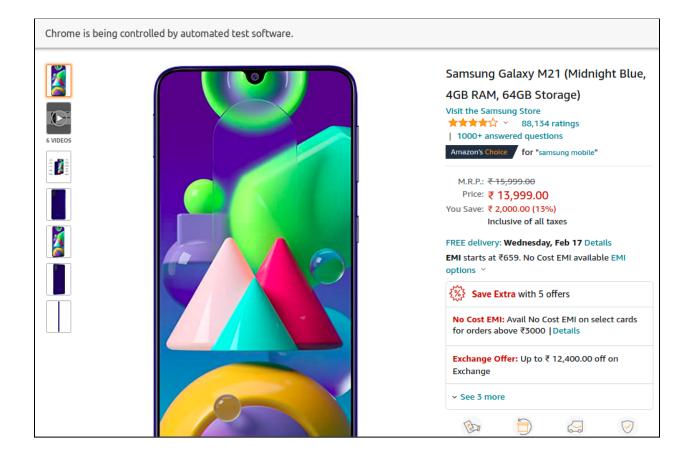
Validate all the details for an article

```
🛺 *navigate Articles.java 🛭
 1⊖ import static org.testng.Assert.assertEquals;
 2 import static org.testng.Assert.assertFalse;
import static org.testng.Assert.assertNotNull;
 4 import static org.testng.Assert.assertTrue;
 6 import java.util.ArrayList;
 7 import java.util.List;
 8
 9 import org.openqa.selenium.By;
10
11 import org.openqa.selenium.WebDriver;
12
13 import org.openqa.selenium.WebElement;
14
15 import org.openqa.selenium.chrome.ChromeDriver;
16
17 public class navigate Articles{
19⊕ public static void main(String[] args) throws InterruptedException {
```

```
🔑 *navigate_Articles.java 🛭
                                                                                          42
          WebElement product = driver.findElement(By.linkText("Samsung Galaxy M21 (Midnight
43
          product.click();
44
45
46
          List<String> tabNum = new ArrayList<>(driver.getWindowHandles());
47
          driver.switchTo().window(tabNum.get(1));
48
49
          org.testng.Assert.assertTrue(true);
50
          String value = driver.findElement(By.id("priceblock ourprice lbl")).getText();
51
52
          System.out.println(value):
          assertTrue(value.equalsIgnoreCase("Price:"));
53
          assertEquals(value, "Price:");
54
55
          assertNotNull(driver.findElement(By.id("landingImage")).isEnabled());
56
57
          String desc = driver.findElement(By.xpath("//*[@id=\"productDescription feature di
58
59
          System.out.println(desc);
          assertFalse(desc.equalsIgnoreCase("ProductDetails:-"));
60
          assertEquals(true,true);
61
        }
62
    1
63
```

Output





Experiment - 09

Refactoring test code for Login ,Search Page and Article details page

```
1 import org.testng.annotations.Test;
import static org.testng.Assert.assertEquals;
3 import static org.testng.Assert.assertNotNull;
import static org.testng.Assert.assertTrue;
import java.util.ArrayList;
import org.openqa.selenium.By;
7 import org.openga.selenium.WebDriver;
8 import org.openqa.selenium.WebElement;
9 import org.openga.selenium.chrome.ChromeDriver;
import org.testng.annotations.AfterClass;
import org.testng.annotations.BeforeClass;
13
15 public class SearchDetails {
        String driverPath = "/home/atishay/Test Automation Lab/chromedriver";
17
        WebDriver driver;
18
19
20
21⊖ @BeforeClass
      public void beforeClass() {
22
          System.setProperty("webdriver.chrome.driver",driverPath);
23
          driver=new ChromeDriver();
24
25
          driver.navigate().to("https://www.amazon.in/");
          driver.manage().window().maximize();
26
27
```

```
ariver.navigate(/.to( nctps.//www.amazon.in/ //
26
         driver.manage().window().maximize();
                                                                                             27
     }
28
     @Test(priority=0,alwaysRun=true)
                                                                                             29⊖
30
     public void f1() {
         WebElement searchtb = driver.findElement(By.xpath("//*[@id=\"twotabsearchtextbox\"
31
         searchtb.isEnabled();
32
         searchtb.sendKeys("Samsung M21");
33
34
     }
35
36
     @Test(priority=1)
37⊝
       public void f2() {
38
           WebElement searchbutton = driver.findElement(By.cssSelector("#nay-search-submit-
39
           searchbutton.click();
40
41
42
       @Test(priority=2)
43⊖
       public void f3() {
44
           WebElement mobilePhone = driver.findElement(By.linkText("Samsung Galaxy M21 (Mid
45
46
           assertTrue(mobilePhone.isEnabled());
           mobilePhone.click();
47
           ArrayList<String> Tabs = new ArrayList<String>(driver.getWindowHandles());
48
           System.out.println("no of Tabs " + Tabs);
49
           driver.switchTo().window(Tabs.get(1));
50
       }
51
```

```
51
        }
52
53⊖
       @Test(priority=3)
54
        public void f4() {
55
            WebElement mrpElement = driver.findElement(By.xpath("/html/body/div[2]/div[2]/di
56
            String text = mrpElement.getText();
57
            assertEquals(text, "M.R.P.:");
58
       }
59
60⊝
       @Test(priority=4,description="Checking for the presence of add to cart button")
       public void f5() {
61
            assertTrue(driver.findElement(By.id("add-to-cart-button")).isEnabled());
62
63
64
65⊖
       @Test(priority=5)
66
       public void f6() {
            assertNotNull(driver.findElement(By.id("landingImage")));
67
68
69
        @AfterClass
70⊝
        public void closeChromeWindow() {
71
72
            driver.close():
73
74 }
```

```
📳 Problems 🎯 Javadoc 🚇 Declaration 📮 Console 🛭 📭 Results of running class SearchDetails
                                                                          terminated> SearchDetails [TestNG] /home/atishay/Downloads/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_15.0.1.v.
[RemoteTestNG] detected TestNG version 7.3.0
Starting ChromeDriver 87.0.4280.88 (89e2380a3e36c3464b5dd1302349b1382549290d-refs/branch-heads/4280@{#1761}) on port 15
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1613931316.718][WARNING]: This version of ChromeDriver has not been tested with Chrome version 88.
Feb 21, 2021 11:45:16 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
no of Tabs [CDwindow-8A77031ED97868947243DC56CDE742AB, CDwindow-8C675F6FED3C52D362FFAFADCFAF7719]
PASSED: f1
PASSED: f2
PASSED: f3
PASSED: f4
PASSED: f5
        Checking for the presence of add to cart button
PASSED: f6
    Default test
    Tests run: 6, Failures: 0, Skips: 0
Default suite
Total tests run: 6, Passes: 6, Failures: 0, Skips: 0
```

EXPERIMENT - 06

Automating the framework to parameterize the data

For Register

```
dataProvider_login.java
                         Login test.java
                                            ☑ Register_Test.java X
                                                                                       package dataProvider;
 3⊝ import org.testng.annotations.Test;
 4 import org.openqa.selenium.By;
 5 import org.openqa.selenium.WebDriver;
 6 import org.openga.selenium.WebElement;
 7 import org.openga.selenium.chrome.ChromeDriver;
8 import org.testng.annotations.AfterSuite;
9 import org.testng.annotations.BeforeTest;
10 import org.testng.annotations.DataProvider;
12 public class Register Test {
13
       String driverPath = "/home/atishay/Test Automation Lab/chromedriver";
14
       WebDriver driver:
15
16
17
     @BeforeTest
18⊖
     public void beforeClass() {
19
          System.setProperty("webdriver.chrome.driver",driverPath);
20
          driver=new ChromeDriver();
21
22
23
     }
24
25⊖
     @Test(dataProvider="data for register")
       public void login(String username, String phoneNumber, String password) {
26
27
          driver.manage().window().maximize();
28
          driver.navigate().to("https://www.amazon.in/");
29
```

```
driver.manage().window().maximize();
28
29
         driver.navigate().to("https://www.amazon.in/");
30
31
         WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1")
         signIn.click();
32
33
         WebElement createAccountButton = driver.findElement(By.id("createAccountSubmit"))
34
35
         createAccountButton.click();
36
         WebElement name = driver.findElement(By.name("customerName"));
37
         name.sendKeys(username);
38
39
         WebElement mobileNumber = driver.findElement(By.id("ap phone number"));
40
41
         mobileNumber.sendKeys(phoneNumber);
42
43
         WebElement passwd = driver.findElement(By.name("password"));
44
          passwd.sendKeys(password);
45
         WebElement continueButton = driver.findElement(By.id("continue"));
46
47
         continueButton.click();
48
     }
49
50⊝
     @DataProvider
     public static Object[][] data for register() {
51
52
        Object[][] data = new Object[3][3];
53
        data[0][0] = "user1";
54
55
        data[0][1] = "1234555";
        data[0][2] = "password1";
56
```

```
WebElement continueButton = driver.findElement(By.id("continue"));
46
47
         continueButton.click();
48
49
50⊝
     @DataProvider
51
     public static Object[][] data for register() {
52
       Object[][] data = new Object[3][3];
53
54
       data[0][0] = "user1";
55
       data[0][1] = "1234555";
       data[0][2] = "password1";
56
57
       data[1][0] = "user2";
58
       data[1][1] = "6789000";
59
       data[1][2] = "password2";
60
61
       data[2][0] = "Atishay";
62
       data[2][1] = "9711365354";
63
       data[2][2] = "31072000";
64
65
66
       return data;
67
68
69⊖
     @AfterSuite
     public void closeChromeWindow() {
70
       driver.close();
71
72
73
74 }
```

OUTPUT

```
🔐 Problems 	 @ Javadoc 🚇 Declaration 📮 Console 🛭 📭 Results of running class Register_Test
                                                                                  <terminated> Register_Test [TestNG] /home/atishay/Downloads/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_15.0.1.v2
[RemoteTestNG] detected TestNG version 7.3.0
Starting ChromeDriver 87.0.4280.88 (89e2380a3e36c3464b5dd1302349b1382549290d-refs/branch-heads/4280@{#1761}) on port 811
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1614004447.568][WARNING]: This version of ChromeDriver has not been tested with Chrome version 88.
Feb 22, 2021 8:04:07 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
PASSED: login("userl", "1234555", "password1")
PASSED: login("user2", "6789000", "password2")
PASSED: login("Atishay", "9711365354", "31072000")
    Default test
    Tests run: 3, Failures: 0, Skips: 0
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
```

For Login - Data provider Class

```
package dataProvider:
3 import org.testng.annotations.DataProvider;
5 public class dataProvider login {
6
7⊝
     @DataProvider(name="data for login")
     public static Object[][] dp() {
8
9
         Object[][] data = new Object[3][2];
10
11
         //1st row
12
13
14
         data[0][0] = "atishay@gmail.com";
15
         data[0][1] = "abcdefghijk";
16
         //2nd row
17
18
19
         data[1][0] = "atishayjain@gmail.com";
20
         data[1][1] = "12345678aj";
21
22
         //3rd row
23
24
25
         data[2][0] = "aj13618@gmail.com";
         data[2][1] = "I
26
27
         return data:
28
29 }
30
```

Login class

```
package dataProvider;
3⊝ import org.testng.annotations.Test;
4 import org.testng.annotations.BeforeTest;
5 import org.openga.selenium.By;
6 import org.openqa.selenium.WebDriver;
7 import org.openqa.selenium.WebElement;
8 import org.openqa.selenium.chrome.ChromeDriver;
9 import org.testng.annotations.AfterClass;
10
11 public class Login test {
12
       String driverPath = "/home/atishay/Test Automation Lab/chromedriver";
13
       WebDriver driver;
14
15
16
     @BeforeTest
17⊜
     public void beforeClass() {
18
         System.setProperty("webdriver.chrome.driver",driverPath);
19
         driver=new ChromeDriver();
20
21
22
23
     @Test(dataProvider = "data for login", dataProviderClass = dataProvider login.class)
24⊖
     public void loginAmazon(String username, String passwd) {
25
26
27
         driver.navigate().to("https://www.amazon.in/");
         driver.manage().window().maximize();
28
29
         WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1") );
30
```

```
23
24⊝
     @Test(dataProvider = "data for login", dataProviderClass = dataProvider login.class)
25
     public void loginAmazon(String username, String passwd) {
26
27
          driver.navigate().to("https://www.amazon.in/");
28
          driver.manage().window().maximize();
29
30
          WebElement signIn = driver.findElement(By.id("nav-link-accountList-nav-line-1") );
          signIn.click();
31
32
          WebElement enterEmail = driver.findElement(By.id("ap email"));
33
34
          enterEmail.sendKeys(username);
35
36
          WebElement continueButton = driver.findElement(By.id("continue"));
          continueButton.click();
37
38
          WebElement enterPassword = driver.findElement(By.id("ap password"));
39
          enterPassword.sendKeys(passwd);
40
41
          WebElement loginButton = driver.findElement(By.id("signInSubmit"));
42
43
          loginButton.click();
     }
44
45
     @AfterClass
46⊜
     public void afterClass() {
47
48
          driver.close();
49
50 }
51 }
52
```

OUTPUT

```
- -
🔐 Problems @ Javadoc 🚇 Declaration 📮 Console 🛭 🚱 Results of running class Login_test
                                                                                     <terminated>Login_test [TestNG] /home/atishay/Downloads/eclipse/plugins/org.eclipse.justj.openjdk.hotspot.jre.full.linux.x86_64_15.0.1.v202 [RemoteTestNG] detected TestNG version 7.3.0
Starting ChromeDriver 87.0.4280.88 (89e2380a3e36c3464b5dd1302349b1382549290d-refs/branch-heads/4280@{#1761}) on port 13
Only local connections are allowed.
Please see https://chromedriver.chromium.org/security-considerations for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
[1614003546.540][WARNING]: This version of ChromeDriver has not been tested with Chrome version 88.
Feb 22, 2021 7:49:06 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C
PASSED: loginAmazon("atishay@gmail.com", "abcdefghijk")
PASSED: loginAmazon("atishayjain@gmail.com", "12345678aj")
PASSED: loginAmazon("aj13618@gmail.com", "
    Default test
    Tests run: 3, Failures: 0, Skips: 0
Default suite
Total tests run: 3, Passes: 3, Failures: 0, Skips: 0
```