MILESTONE ASSESSMENT 2

1.

Question : 1

Enter the Student, Name in the corresponding fields. Make sure the id start with uppercase ST letters and 5 digits after that. Otherwise, prompt user while adding record to the table.

Choose the Department from the dropdown. The valid dropdown are Mechanical and Computer Science.

Choose Placement training either Required or not required. If both the option buttons are selected, it should prompt the user about it and allow the user to choose only one option.

On click of "Add Student" button, the data should be added to the table.

On click of "Count" button, it should count number of employees in each track from the records available in the table and display the total count near total no. of employee text.

If the placement training is required the row color for that particular row should change to green.

CODE:

```html
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>Document</title>
    <style>
      .mytable {
        margin: 30px 30px;
      }
      .mytable,
      td,tr,th {
        border: black 1px solid;
      }
      #sid #name
      {

      border: 1.5px solid ;
      border-radius: 5px;
      padding: 3px;
```

```css
        outline: none;
        height: 25px;
}
label
{
        font-family: sans-serif;
        font-size: 14px;
}
button{
        background-color: red;
}
.container {
            border: black 2px solid;
            padding: 20px;
            width: 700px;

        }
    </style>
  </head>
  <body>
    <div class="container" align="center">
      <form class="form"  action="javascript:void(0);">
        <label for="id">Student Id</label>
        <input type="text" id="sid" placeholder="Student id"/>
               
        <label for="Department">Department</label>
        <select name="Dept" id="Department">
          <option value="Mechanical">Mechanical</option>
          <option value="Computer Science">Computer Science</option>
        </select><br>
        <label for="name">Student Name</label>
        <input type="text" id="sname" placeholder="Student Name" />  
   
        <label for="Placement Training">Placement Training</label>
        <input type="radio" id="Placement Training" name="p1" value="required"
required>Required
        <input type="radio" id="Placement Training" name="p1" value="not
required" required>Not Required<br><br>
        <button id="submit1" onclick="Click()">Add Student</button>
        <br>
        <table class="mytable">
          <tr>
            <th>Student Id</th>
            <th>Student Name</th>
            <th>Department</th>
            <th>Placement Training</th>
          </tr>
        </table>
```

```html
      <button id="count" onclick="Count()">count</button>
      <center>
        <p id="get">
        </p>
      </center>
    </form>
  </div>


  <script>
    var tab = document.querySelector(".mytable");
    var sub = document.querySelector("#submit1");
    var sname = document.getElementById("sname");
    var sid = document.getElementById("sid");
    var dept = document.getElementById("Department");
    var ele=document.getElementsByName("p1");

    var reg=new RegExp("^[0-9]+$");
    var count=0;
    function Click() {
      var plctrn;
for(var i = 0; i < ele.length; i++){
    if(ele[i].checked){
        plctrn = ele[i].value;
        console.log(plctrn);
    }
}
      var idn=sid.value.trim();
      console.log(idn.substring(0,2))
      console.log(reg.test(idn.slice(2))+ " "+idn.slice(2));
      if(idn.startsWith("ST")&&reg.test(idn.slice(2))&&
idn.slice(2).length==5)
      {
      console.log(sname.value+" "+sid.value+" "+dept.value+" "+plctrn);
      console.log(sname.innerHTML);
      var row = tab.insertRow();
      var cell1 = row.insertCell();
      var cell2 = row.insertCell();
      var cell3 = row.insertCell();
      var cell4 = row.insertCell();
      cell1.innerHTML = sid.value;
      cell2.innerHTML = sname.value;
      cell3.innerHTML = dept.value;
      cell4.innerHTML = plctrn;
      var regex = new RegExp('^' +plctrn+ '$', 'i');
      if(regex.test("required"))
      {
        row.style.backgroundColor="green";
```

```
        }
        else if(regex.test("not required"))
        {
           row.style.backgroundColor="gray";
        }
        count++;
        }
        else
        {
           alert("Enter Correct Student id");          }
        }
        function Count()
        {
           var sname = document.getElementById("get");
           get.innerHTML="Total No of students="+count;
        }
    </script>
  </body>
</html>
```

Output:

ScreenShots:

Screenshot 1

Student Id `ST10929`   Department `Mechanical`

Student Name `Harsha`   Placement Training ● Required ○ Not Required

Add Student

Student Id	Student Name	Department	Placement Training
ST10929	Harsha	Mechanical	required

count

Total No of students=1

Screenshot 2

Student Id `1092`

Student Name `Ravi`

This page says

Enter Correct Student id

OK

Student Id	Student Name	Department	Placement Training
ST10929	Harsha	Mechanical	required
ST10902	Ravi	Computer Science	required

count

Student Id [ST10978]   Department [Computer Science ▾]
Student Name [Harshal]   Placement Training   ○ Required   ● Not Required

Add Student

Student Id	Student Name	Department	Placement Training
ST10929	Harsha	Mechanical	required
ST10902	Ravi	Computer Science	required
ST10922	Karthik	Computer Science	required
ST10978	Harshal	Computer Science	not required

count

Total No of students=4

Student Id [ST10921]   Department [Computer Science ▾]
Student Name [Mahesh]   Placement Training ○ Required ● Not Required

Add Student

Student Id	Student Name	Department	Placement Training
ST10929	Harsha	Mechanical	required
ST10923	Ravi	Computer Science	required
ST10925	Raju	Computer Science	not required
ST10920	Arun	Mechanical	required
ST10921	Mahesh	Computer Science	not required

count

2.

Selenium problem statement: 1. Go to https://www.homecentre.in/

2. Search for "tea cups" in the search box.

3. Click on the "Raisa-Retro Printed Tea Mug" from the list of cups shown.

4. Verify the name of the cup and Click on "Add to Basket" option to buy the cup from the site.

5. Verify the cup name in the Add to basket page. Print "cup name matched" in the console.

6. Click on proceed to checkout.

7. Close the browser.

```java
package MileStone2_selenium;


import org.openqa.selenium.By;
import org.openqa.selenium.Keys;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.WebElement;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.chrome.ChromeOptions;

public class Test {

    public static String url="https://www.homecentre.in/";
        public static void main(String[] args) throws InterruptedException
        {
        //Browser Setup

        System.setProperty("webdriver.chrome.driver","D:\\SeleniumNew\\HARSHA\\eclipse-workspace\\MileStone2\\driver\\chromedriver.exe");
        ChromeOptions options=new ChromeOptions();

        options.addArguments("disable-popup-blocking");
    options.addArguments("--disable-notifications");
        //Chrome driver intialization
        WebDriver driver=new ChromeDriver(options);
        //Opening the Url
        driver.get(url);
        driver.findElement(By.xpath("//input[@id='js-site-search-input']")).click();
```

```java
        driver.findElement(By.xpath("//input[@id='js-site-search-
input']")).sendKeys("tea cups");
        driver.findElement(By.xpath("//input[@id='js-site-search-
input']")).sendKeys(Keys.ENTER);
        Thread.sleep(5000);
        WebElement product=driver.findElement(By.linkText("Raisa-Retro Printed Tea
Mug"));
        String cupname=product.getText();
        if(cupname.equals("Raisa-Retro Printed Tea Mug"))
        {
        product.click();
        }
        Thread.sleep(2000);
        WebElement addtobasket= driver.findElement(
By.xpath("(//button[@id='product-actions-btn-add'])[2]"));
        addtobasket.click();
        WebElement product_in_basket=driver.findElement(By.linkText("Raisa-Retro
Printed Tea Mug"));
        String cupname_in_basket=product_in_basket.getText();
        if(cupname_in_basket.equals("Raisa-Retro Printed Tea Mug"))
        {
                System.out.println("cup name matched");
                WebElement
check_out=driver.findElement(By.xpath("(//button[@id='btn-checkout'])[2]"));
                check_out.click();
                //System.out.println("Clicked on checkout");
        }

        driver.quit();


}
}
```

POM.XML file(The fie contains all the dependencies)

```xml
<project xmlns="http://maven.apache.org/POM/4.0.0"
        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0
https://maven.apache.org/xsd/maven-4.0.0.xsd">
        <modelVersion>4.0.0</modelVersion>
        <groupId>com.homecentre.com</groupId>
        <artifactId>MileStone2</artifactId>
        <version>0.0.1-SNAPSHOT</version>
        <dependencies>

                <dependency>
                        <groupId>org.seleniumhq.selenium</groupId>
                        <artifactId>selenium-java</artifactId>
                        <version>3.141.59</version>
                </dependency>

                <!-- https://mvnrepository.com/artifact/org.testng/testng -->
```

```
        <dependency>
                <groupId>org.testng</groupId>
                <artifactId>testng</artifactId>
                <version>6.7</version>
                <scope>test</scope>
        </dependency>
    </dependencies>
</project>
```

Screenshots:

Browser — homecentre.in/in/en/cart

homecentre.in/in/en/cart

Chrome is being controlled by automated test software.

Free Shipping | EMI Options | Download our Apps | Track Furniture Order | He

homecentre | Departments ∨ | Deals | More ∨ | Basket

What are you looking for?

Sign Up - Sign In

Your Shopping Basket

Get the offer | Extra 5% Cashback with HDFC credit card EMI transactions on min. purchase of Rs. 5,000. T&C apply

Item	Description	Price	Quantity	Total Price

homecentre

Raisa-Retro Printed Tea Mug
Colour: **Blue**

₹ 99
₹ 79

1

₹ 79

Remove

Subtotal (1 item): ₹ 79

Checkout Now

PayPal | VISA | mastercard | RuPay

PayPal

CASH on delivery | AMERICAN EXPRESS | Net Banking | Wallets

LANDMARK REWARDS

Got a Promo Code? **Use it here**

Waiting for sdk-01.moengage.com...

Type here to search

Eclipse IDE — Test.java

eclipse-workspace - MileStone2/src/main/java/MileStone2_selenium/Test.java - Eclipse IDE

File Edit Source Refactor Navigate Search Project Run Window Help

*Test.java MileStone2/pom.xml DemoS.java

```java
1  package MileStone2_selenium;
2
3
4
5  import org.openqa.selenium.By;
6  import org.openqa.selenium.Keys;
7  import org.openqa.selenium.WebDriver;
8  import org.openqa.selenium.WebElement;
9  import org.openqa.selenium.chrome.ChromeDriver;
10 import org.openqa.selenium.chrome.ChromeOptions;
11
12 public class Test {
13
14     public static String url="https://www.homecentre.in/";
15     public static void main(String[] args) throws InterruptedException
16     {
17         //Browser Setup
18
19         System.setProperty("webdriver.chrome.driver","D:\\SeleniumNew\\HARSHA\\eclipse-workspace\\MileStone2\\driver\\chromedriver.exe");
20         ChromeOptions options=new ChromeOptions();
21
22         options.addArguments("disable-popup-blocking");
23         options.addArguments("--disable-notifications");
24         //Chrome driver intialization
25         WebDriver driver=new ChromeDriver(options);
26         //Opening the Url
27         driver.get(url);
28         driver.findElement(By.xpath("//input[@id='js-site-search-input']")).click();
29         driver.findElement(By.xpath("//input[@id='js-site-search-input']")).sendKeys("tea cups");
30         driver.findElement(By.xpath("//input[@id='js-site-search-input']")).sendKeys(Keys.ENTER);
31         Thread.sleep(5000);
32         WebElement product=driver.findElement(By.linkText("Raisa-Retro Printed Tea Mug"));
33         String cupname=product.getText();
34         if(cupname.equals("Raisa-Retro Printed Tea Mug"))
35         {
36         product.click();
37         }
38         Thread.sleep(2000);
39         WebElement addtobasket= driver.findElement( By.xpath("//button[@id='product-actions-btn-add'])[2]"));
40         addtobasket.click();
41         WebElement product_in_basket=driver.findElement(By.linkText("Raisa-Retro Printed Tea Mug"));
42         String cupname_in_basket=product_in_basket.getText();
43         if(cupname_in_basket.equals("Raisa-Retro Printed Tea Mug"))
```

Console output:

<terminated> Test [Java Application] C:\Program Files\Java\jdk-15\
Starting ChromeDriver 93.0.4577.63 (ff5c0da2ec6...
Only local connections are allowed.
Please see https://chromedriver.chromium.org/se
ChromeDriver was started successfully.
[1635250740.111][WARNING]: This version of Chro
Oct 26, 2021 5:49:00 PM org.openqa.selenium.rem
INFO: Detected dialect: W3C
cup name matched

Writable | Smart Insert | 51 : 1 : 1937

Type here to search

25°C Partly sunny ENG 17:50 26-10-2021