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M.C.A Semester – III

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Subject :	MCAL35 Software Testing & Quality Assurance Lab
Module:	3
Date:	23-09-2022

Q. 1) A university is admitting students for a professional course to the following conditions :

- i) Marks in AIML ≥ 70
- ii) Marks in IoT ≥ 60
- iii) Marks in IS ≥ 60
- iv) Total in all three subjects ≥ 220 OR Total in AIML and IoT ≥ 150

If the TOTAL mark of an eligible candidate is more than 240 he/she will be eligible for scholarship course, otherwise he/she will be eligible for normal course. The program reads the marks in the three subjects and generates the following outputs:

- (i) Not eligible
- (ii) Eligible for scholarship course
- (iii) Eligible for normal course

Design test cases for this system using decision table testing.

Solution:

	R1	R2	R3	R4	R5	R6	R7	R8	R9
C1 : AIML ≥ 70	T	T	T	T	F	I	I	I	T
C2 : IOT ≥ 60	T	T	T	T	I	F	I	I	T
C3 : IS ≥ 60	T	T	T	T	I	I	F	I	T
C4 : Total in three subjects ≥ 220	T	T	T	T	I	I	I	F	F
C5 : Total in AIML and IOT ≥ 150	T	F	F	T	I	I	I	F	T
C6 : Total > 240	F	F	T	T	I	I	I	I	F
Actions									
A1 : Not eligible					X	X	X	X	
A2 : Eligible for scholarship course			X	X					
A3 : Eligible for normal course	X	X							X



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Test Cases

Test Case ID	AIML	IOT	IS	Total Marks	Output
1	75	75	75	225	Eligible for normal course
2	70	70	80	220	Eligible for normal course
3	70	70	91	241	Eligible for scholarship course
4	90	90	90	270	Eligible for scholarship course
5	50	90	90	230	Not Eligible
6	90	50	80	220	Not Eligible
7	80	80	40	200	Not Eligible
8	70	70	60	200	Not Eligible
9	75	75	60	210	Eligible for normal course

Q. 2) Implement cross browser demonstration using Selenium webdriver.

SourceCode:-

```
package DemoPrograms;

import java.util.Scanner;

import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class DemoCrossBrowser {
    static WebDriver wd;
    public static void main(String[] args) {
        // Cross browser demonstration
        Scanner sc=new Scanner(System.in);
        System.out.println("\n 1: Chrome \n 2: FireFox \n");
        System.out.println("Enter Choice:");
        int ch=sc.nextInt();
        switch(ch) {
            case 1:
                System.setProperty("webdriver.chrome.driver","D:\\Selenium\\chromedriver.exe");
                wd=new ChromeDriver();
                break;
            case 2:
                System.setProperty("webdriver.chrome.driver","D:\\Selenium\\chromedriver.exe");
```



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```
wd=new FirefoxDriver();
break;
default:
    System.out.println("Invalid Choice");
}
if(wd != null)
    wd.get("https://www.geeksforgeeks.org/");

}

}
```

OUTPUT:

```
1: Chrome
2: FireFox

Enter Choice:
2
1663914281874 geckodriver INFO Listening on 127.0.0.1:43718
1663914282638 mozrunner::runner INFO Running command: "C:\\Program Files\\Mozilla Firefox\\firefox.exe" "--marionette" "-no-remote"
```

```
<terminated> DemoCrossBrowser [Java Application] C:\Users\helpdesk\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64_17.0.2.v20220201-1208\jre\bin\javaw.exe (23-
1: Chrome
2: FireFox

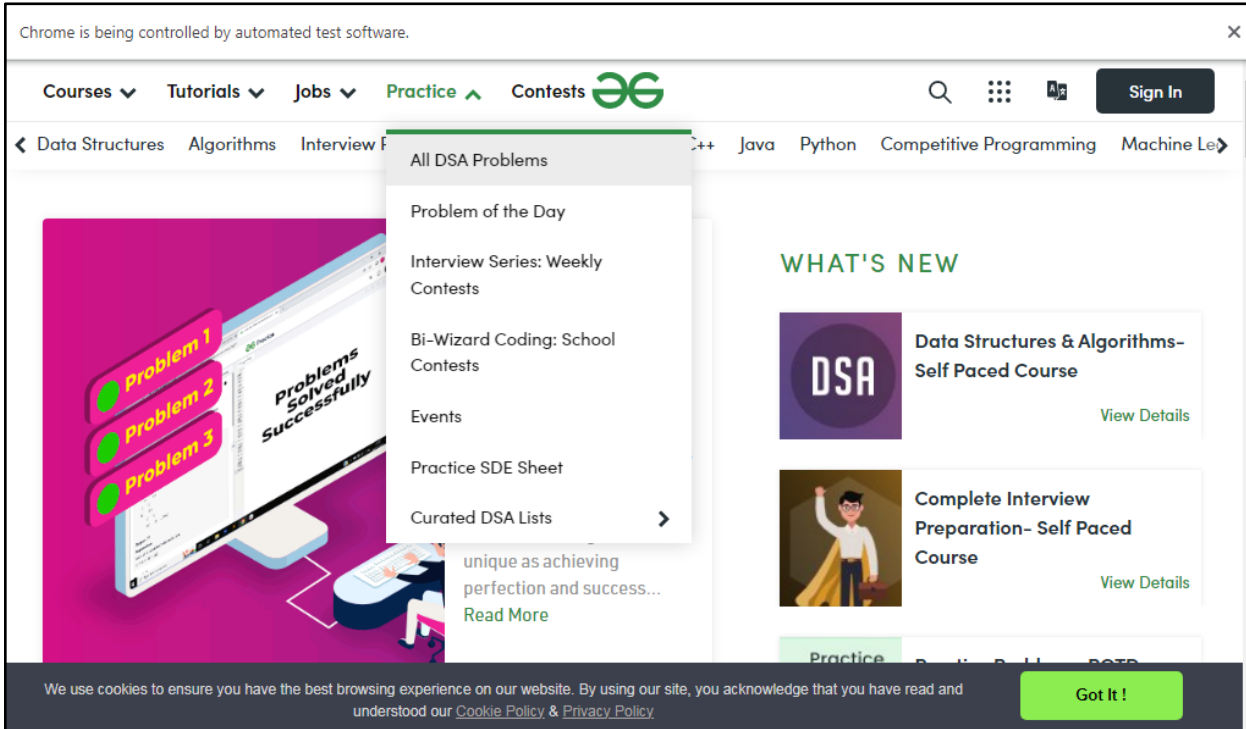
Enter Choice:
1
Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c2ae6a26a85-refs/branch-heads/5195@{#853}) on port 4684
Only local connections are allowed.
```



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Q. 3) Implement Locator (id, name, class, partial link text, link text etc.) demonstration on login page of <https://opensource-demo.orangehrmlive.com/> Selenium webdriver.

Source code:

```
package DemoPrograms;

import org.openqa.selenium.By;
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.chrome.ChromeDriver;
import org.openqa.selenium.firefox.FirefoxDriver;

public class LocalDemo {

    public static void main(String[] args) throws Exception {
        // TODO Auto-generated method stub
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\chromedriver.exe");
        WebDriver Wd = new ChromeDriver();
        Wd.get("https://opensource-demo.orangehrmlive.com/web/index.php/auth/login");
        Thread.sleep(1000);
        Wd.findElement(By.name("username")).sendKeys("Admin");
        Thread.sleep(1000);
    }
}
```



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```
Wd.findElement(By.name("password")).sendKeys("admin123");
Thread.sleep(1000);
Wd.findElement(By.cssSelector("button[type=submit]")).click();
Thread.sleep(3000);
Wd.findElement(By.xpath("//*[@id=\"app\"]/div[1]/div[1]/header/div[1]/div[2]/ul/li/span/p")).click();
Thread.sleep(2000);
Wd.findElement(By.linkText("Logout")).click();
Thread.sleep(2000);
Wd.quit();
}
```

OutPut:

Starting ChromeDriver 105.0.5195.52 (412c95e518836d8a7d97250d62b29c2ae6a26a85-refs/branch-heads/5195@{#853}) on port 46802
Only local connections are allowed.
Please see <https://chromedriver.chromium.org/security-considerations> for suggestions on keeping ChromeDriver safe.
ChromeDriver was started successfully.
Sep 23, 2022 12:38:02 PM org.openqa.selenium.remote.ProtocolHandshake createSession
INFO: Detected dialect: W3C

The screenshot shows the OrangeHRM PIM interface. The sidebar on the left contains navigation links: Search, Admin, PIM (highlighted), Leave, Time, Recruitment, My Info, Performance, Dashboard, Directory, Maintenance, and Buzz. The main content area is titled 'Employee Information' and contains a form with the following fields: Employee Name (with a hint 'Type for hints...'), Employee Id, Employment Status (a dropdown menu), Include (a dropdown menu with 'Current Employees Only' selected), Supervisor Name (with a hint 'Type for hints...'), Job Title (a dropdown menu), and Sub Unit (a dropdown menu). At the bottom right of the form are 'Reset' and 'Search' buttons. At the bottom left of the main content area is a '+ Add' button.



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Q.4) Implement Locator [id, name, class, partial link text, link text, cssSelector, Xpath (absolute path and relative path)] demonstration on login page of <https://infyspringboard.onwingspan.com/web/en/login> Selenium webdriver.

Source code:

```
package DemoPrograms;
```

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

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

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

```
public class InfyLocatordemo {
```

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

```
        // TODO Auto-generated method stub
```

```
        System.setProperty("webdriver.chrome.driver", "D:\\Selenium\\chromedriver.exe");
```

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

```
        wd.get("https://infyspringboard.onwingspan.com/web/en/login");
```

```
        wd.manage().window().maximize();
```

```
        Thread.sleep(5000);
```

```
        wd.findElement(By.xpath("//*[@id=\"onetrust-accept-btn-handler\"]")).click();
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.xpath("//*[@id=\"ws-root-main-content\"]/ws-login-root/ws-infosysheadstart-login/div[1]/div/div[5]/button/span[1]")).click();
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.id("username")).sendKeys("mca21_1253ics@met.edu");
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.id("password")).sendKeys("Pass@123");
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.id("kc-login")).click();
```

```
        Thread.sleep(5000);
```

```
        wd.findElement(By.cssSelector("circle.ng-star-inserted")).click();
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.xpath("//*[@id=\"ws-root-main-content\"]/ws-app-profile/ws-app-dashboard/div[2]/div[2]/button/span[1]/span")).click();
```

```
        Thread.sleep(3000);
```

```
        wd.findElement(By.xpath("//*[@id=\"mat-dialog-0\"]/ws-utils-logout/div[2]/button[1]/span[1]")).click();
```

```
    }
```

```
}
```

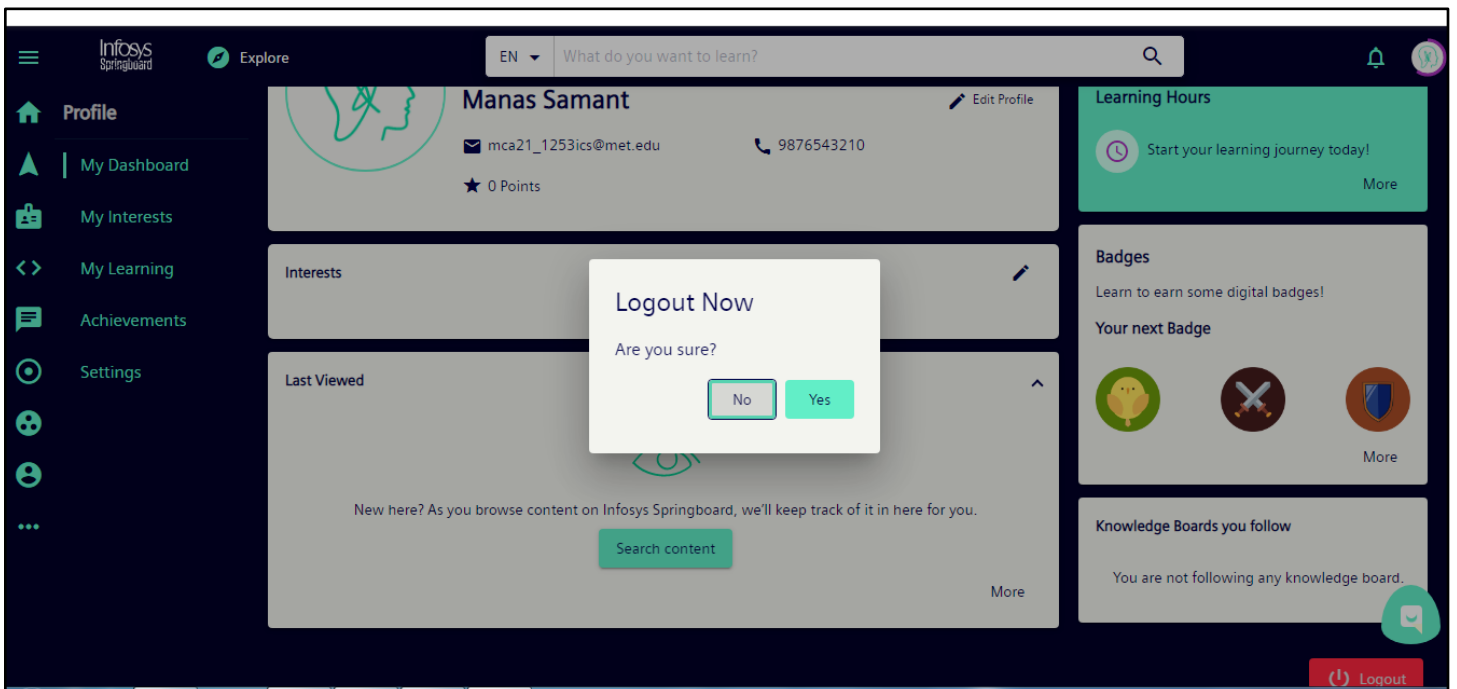
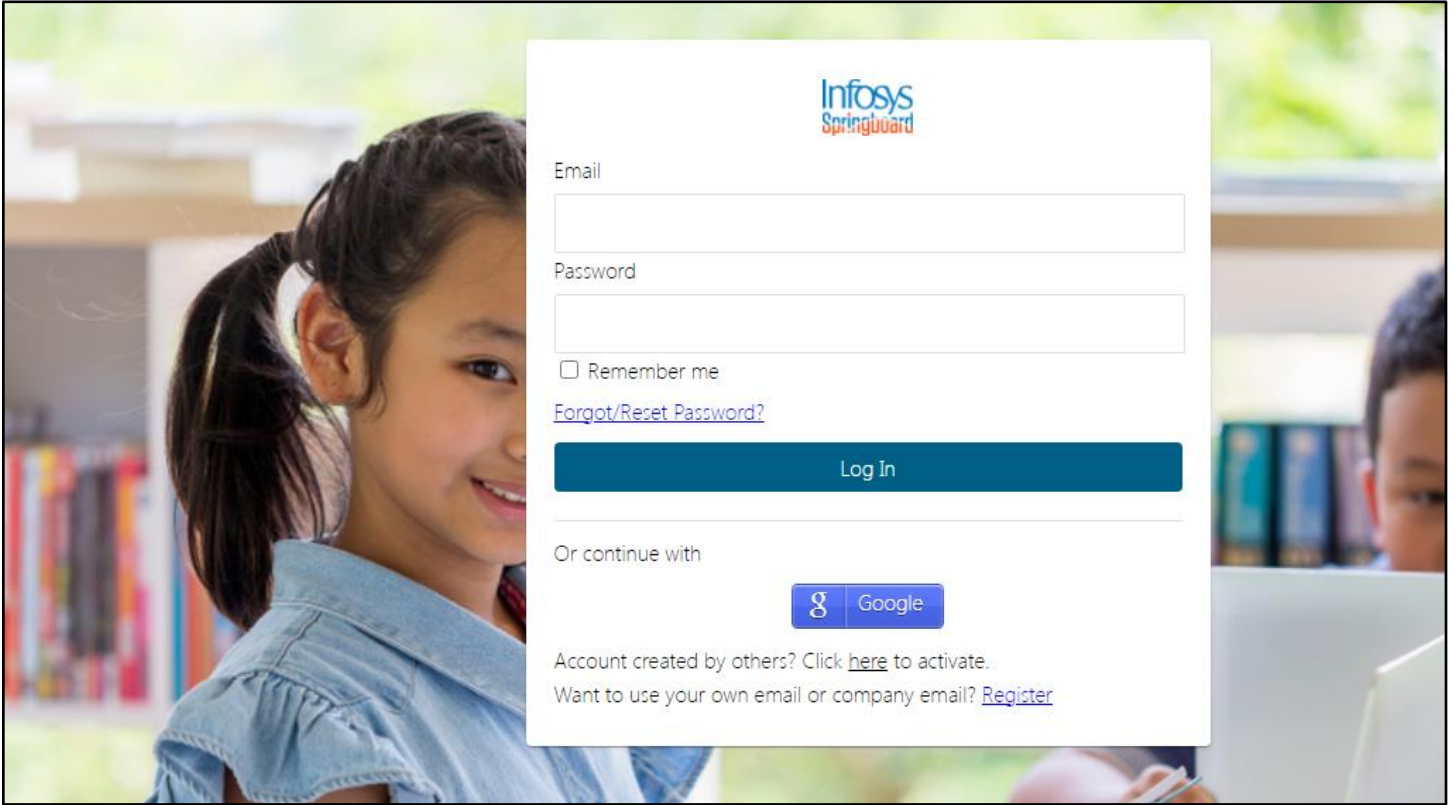
Output:



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