

PRACTICAL NO 04

AIM : Write a program using Selenium WebDriver to select the number of students who have scored more than 60 in any one subject (or all subjects). Perform data extraction and analysis.

Solution :

❖ **Follow the following steps:**

1. Go to Eclipse → Click File → New → Project (from various options need to select just “project”)
2. In Select Wizard → Click Java → “Java Project”
3. Give the project name (e.g. score)
4. Click Finish – Click Yes
5. Right Click “score” project
6. Click “Java Build Path”
7. Click Libraries tab
8. Click “Add External JARs” button
9. Add two external jar files: jxl.2.6.jar file & selenium-server-standalone-3.1.0
10. Click OK
11. Create a new class file as “scoreStu” in the “score” by right click on src folder.

```
package score;
```

```
import java.io.File;  
import java.io.IOException;  
import jxl.Cell;  
import jxl.CellType;  
import jxl.Sheet;  
import jxl.Workbook;  
import jxl.read.biff.BiffException;
```

```
public class scoreStu {  
    public void read() throws IOException {  
        File inputWorkbook = new File("C:\\Users\\rhucha1\\eclipse-workspace\\Pract5\\p5.xls");  
        Workbook w;  
        boolean flag=false;  
        int count=0;  
        try {  
            w = Workbook.getWorkbook(inputWorkbook);  
            Sheet sheet = w.getSheet(0);  
            for (int j = 0; j < sheet.getRows(); j++) {  
                Cell cell = sheet.getCell(4, j);  
                if (cell.getType() == CellType.NUMBER) {  
                    if(Integer.parseInt(cell.getContents())>60){
```

Rhucha ----->>>> STQA

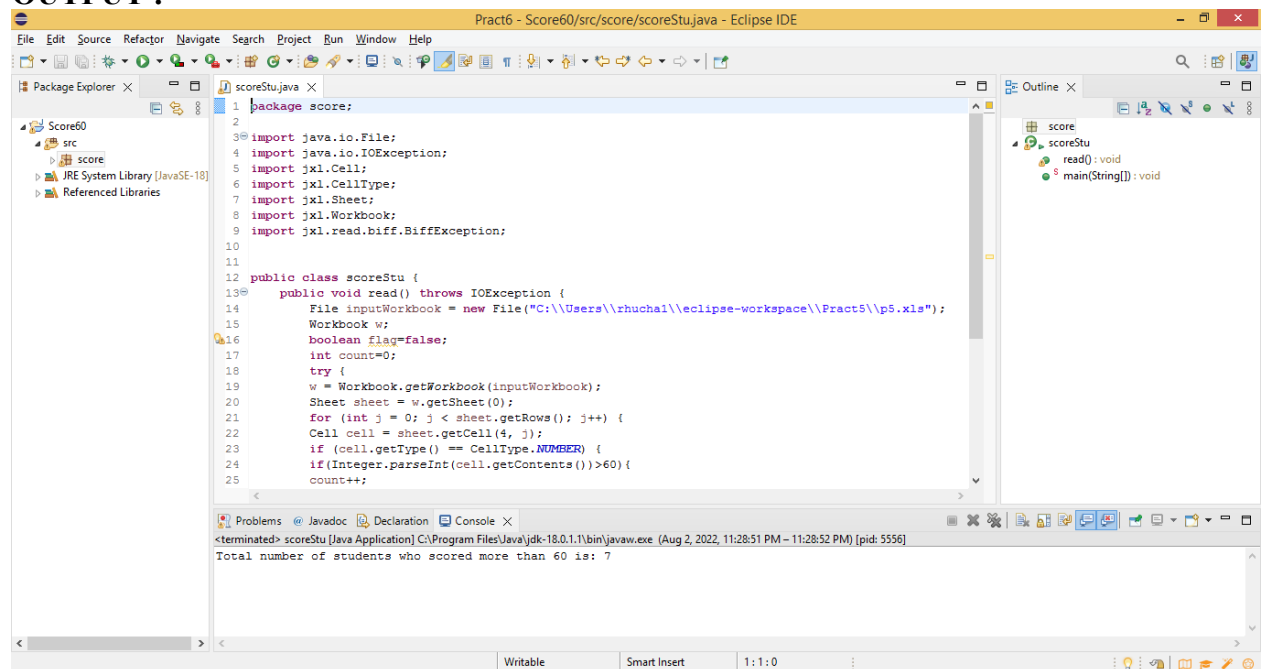
```
        count++;
    }
}

System.out.println("Total number of students who scored more than 60 is: " +count);
} catch (BiffException e) {
    e.printStackTrace();
}
}

public static void main(String[] args) throws IOException {
    scoreStu test = new scoreStu();
    test.read();
}

}
```

OUTPUT :



The screenshot shows the Eclipse IDE interface. The main editor window displays the source code for 'scoreStu.java'. The code includes imports for java.io.File, java.io.IOException, jxl.Cell, jxl.CellType, jxl.Sheet, jxl.Workbook, and jxl.read.biff.BiffException. It defines a public class 'scoreStu' with a 'read()' method that reads an Excel file and counts students scoring more than 60. The 'main' method creates an instance of 'scoreStu' and calls 'read()'. The console at the bottom shows the output: 'Total number of students who scored more than 60 is: 7'.

```
1 package score;
2
3 import java.io.File;
4 import java.io.IOException;
5 import jxl.Cell;
6 import jxl.CellType;
7 import jxl.Sheet;
8 import jxl.Workbook;
9 import jxl.read.biff.BiffException;
10
11
12 public class scoreStu {
13     public void read() throws IOException {
14         File inputWorkbook = new File("C:\\Users\\rhucha1\\eclipse-workspace\\Pract5\\p5.xls");
15         Workbook w;
16         boolean flag=false;
17         int count=0;
18         try {
19             w = Workbook.getWorkbook(inputWorkbook);
20             Sheet sheet = w.getSheet(0);
21             for (int j = 0; j < sheet.getRows(); j++) {
22                 Cell cell = sheet.getCell(4, j);
23                 if (cell.getType() == CellType.NUMBER) {
24                     if (Integer.parseInt(cell.getContents())>60){
25                         count++;
26                     }
27                 }
28             }
29         } catch (BiffException e) {
30             e.printStackTrace();
31         }
32     }
33
34     public static void main(String[] args) throws IOException {
35         scoreStu test = new scoreStu();
36         test.read();
37     }
38 }
```

terminated- scoreStu [Java Application] C:\Program Files\Java\jdk-18.0.1\bin\javaw.exe (Aug 2, 2022, 11:28:51 PM - 11:28:52 PM) [pid: 5556]
Total number of students who scored more than 60 is: 7

Rhucha ----->>>> STQA

The screenshot shows a Microsoft Excel window titled "p5 [Compatibility Mode] - Microsoft Excel". The ribbon includes Home, Insert, Page Layout, Formulas, Data, Review, and View. The Home ribbon is active, showing options for Clipboard, Font, Alignment, Number, Styles, Cells, and Editing. The active cell is A2, containing "Student 1". The worksheet contains a table with student names and scores for three subjects, with a total score calculated in column E.

	A	B	C	D	E	F	G	H	I
1	Student Name	Subject 1	subject 2	subject 3	Total				
2	Student 1	18	15	14	47				
3	Student 2	21	18	17	56				
4	Student 3	26	23	22	71				
5	Student 4	33	30	29	92				
6	Student 5	42	39	38	119				
7	Student 6	53	50	49	152				
8	Student 7	66	63	62	191				
9	Student 8	81	78	77	236				
10	Student 9	98	95	94	287				
11									
12									
13									
14									
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17									
18									
19									
20									

The status bar at the bottom shows "Ready", a "Report" button, and a zoom level of 100%.