PRACTICAL 11

AIM: Write and test a program to select the number of students who have scored more than 60 in any one subject (or all subjects).

CODE:
ExcelTest.java

```java
package pract11;
import jxl.Sheet;
import jxl.Workbook;
import jxl.read.biff.BiffException;
import org.testng.annotations.DataProvider;
import org.testng.annotations.Test;
import java.io.File;
import java.io.IOException;
public class ExcelTest {
        @DataProvider(name = "studentData")
        public Object[][] readExcelData() throws IOException, BiffException {
        String excelFilePath = "C:\\Users\\student\\Downloads\\Book1.xls"; // Use .xls extension for JXL
        Workbook workbook = Workbook.getWorkbook(new File(excelFilePath));
        Sheet sheet = workbook.getSheet(0);
        int rowCount = sheet.getRows();
        int colCount = sheet.getColumns();
        Object[][] data = new Object[rowCount - 1][colCount]; // Subtracting 1 for header row
        for (int i = 1; i < rowCount; i++) {
                for (int j = 0; j < colCount; j++) {
                data[i - 1][j] = sheet.getCell(j, i).getContents();
                }
        }
        workbook.close();
        return data;
        }
        @Test(dataProvider = "studentData")
        public void testStudentScores(String rollNo, String name, String subject1, String subject2, String
subject3,String total) {
        int scoreSubject1 = Integer.parseInt(subject1);
        int scoreSubject2 = Integer.parseInt(subject2);
        int scoreSubject3 = Integer.parseInt(subject3);
        boolean hasScoredMoreThan60 = (scoreSubject1 > 60) || (scoreSubject2 > 60) || (scoreSubject3 > 60);
        if (hasScoredMoreThan60) {
                System.out.println("Student with Roll No: " + rollNo + " and Name: " + name
                        + " has scored more than 60 in any subject.");
        }
        }
```

}
OUTPUT:

```
@ Javadoc  Declaration  Console ×  Progress  Results of running class pract11
<terminated> pract11 [TestNG] C:\Users\Student\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_20.0.1.v20230
[RemoteTestNG] detected TestNG version 7.10.1
SLF4J(W): No SLF4J providers were found.
SLF4J(W): Defaulting to no-operation (NOP) logger implementation
SLF4J(W): See https://www.slf4j.org/codes.html#noProviders for further details.
Student with Roll No: 4 and Name: manasvi has scored more than 60 in any subject.
Student with Roll No: 6 and Name: rishi has scored more than 60 in any subject.
Student with Roll No: 8 and Name: yash has scored more than 60 in any subject.
PASSED: pract11.pract11.testStudentScores("7", "anshul", "42", "43", "41")
PASSED: pract11.pract11.testStudentScores("8", "yash", "62", "47", "42")
PASSED: pract11.pract11.testStudentScores("4", "manasvi", "67", "23", "46")
PASSED: pract11.pract11.testStudentScores("3", "dipti", "29", "24", "43")
PASSED: pract11.pract11.testStudentScores("10", "chirag", "42", "50", "42")
PASSED: pract11.pract11.testStudentScores("1", "piyush", "40", "32", "50")
PASSED: pract11.pract11.testStudentScores("2", "prakash", "33", "50", "44")
PASSED: pract11.pract11.testStudentScores("5", "disha", "38", "10", "20")
PASSED: pract11.pract11.testStudentScores("6", "rishi", "70", "44", "45")
PASSED: pract11.pract11.testStudentScores("9", "abhinay", "44", "49", "42")


===============================================
    Default test
    Tests run: 1, Failures: 0, Skips: 0
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Default suite
Total tests run: 10, Passes: 10, Failures: 0, Skips: 0
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```

Roll No	Name	Subject1	Subject2	Subject3	Total	
1	piyush	40	32	50	122	
2	prakash	33	50	44	127	
3	dipti	29	24	43	96	
4	manasvi	67	23	46	136	
5	disha	38	10	20	68	
6	rishi	70	44	45	159	
7	anshul	42	43	41	126	
8	yash	62	47	42	151	
9	abhinay	44	49	42	135	
10	chirag	42	50	42	134	