Practical 5

Aim: Write and test a program to update 10 student records into table into Excel file.

Create a Student.xls file with Student data.
Download jxl 2.6 jar file.
Extract the jar file in the library of newly created project named Xsldata in Netbeans IDE.
Put the java code and file path , run the code. Updated Sample.xls file would be formed.

Student.xls file

ROLL NO	Name	DBMS	JAVA	LINUX	TOTAL
1	Nandhu	80	75	90	245
2	Viju	75	80	75	230
3	Jona	60	90	85	235
4	Sheeja	35	15	27	77
5	Fatima	40	34	23	97
6	Pallavi	25	41	64	130
7	Trupti	51	38	19	108
8	Aditya	90	65	99	254
9	Rajeshri	85	76	30	191
10	Manasi	99	85	95	279

Code:

```
package xsldata;
import java.io.File;
import java.io.IOException;
import jxl.Workbook;
import jxl.write.Label;
import jxl.write.Number;
```

```
import jxl.read.biff.BiffException;
import jxl.write.WritableSheet;
import jxl.write.WritableWorkbook;
import jxl.Sheet;
import jxl.CellType;
import jxl.Cell;
import jxl.write.WriteException;
import jxl.write.biff.RowsExceededException;
public class Xsldata {
private String inputFile;
public void setOutputFile(String inputFile) {
this.inputFile = inputFile;
}
public void write() throws IOException, WriteException {
File file = new File(inputFile);
WritableWorkbook workbook = Workbook.createWorkbook(file);
workbook.createSheet("Report", 0);
WritableSheet excelSheet = workbook.getSheet(0);
createLabel(excelSheet);
createContent(excelSheet);
workbook.write();
workbook.close();
}
public void read() throws IOException {
File inputWorkbook = new File("I:\\Sample.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())>100){
count++;
}
}
}
System.out.println("Total number of students who scored more than 100 is: "
+count);
} catch (BiffException e) {
}
}
```

```
private void createLabel(WritableSheet sheet)
throws WriteException {
addCaption(sheet, 0, 0, "Student Name");
addCaption(sheet, 1, 0, "Subject 1");
addCaption(sheet, 2, 0, "subject 2");
addCaption(sheet, 3, 0, "subject 3");
addCaption(sheet, 4, 0, "Total");
}
private void createContent(WritableSheet sheet) throws WriteException,
RowsExceededException {
for (int i = 1; i < 10; i++) {
addLabel(sheet, 0, i, "Student " + i);
addNumber(sheet, 1, i, ((i*i)+17));
addNumber(sheet, 2, i, ((i*i)+14));
addNumber(sheet, 3, i, ((i*i)+13));
int total;
total=3*(i*i)+17+14+13;
addNumber(sheet,4,i,total);
}
}
private void addCaption(WritableSheet sheet, int column, int row, String s)
throws RowsExceededException, WriteException {
Label label;
label = new Label(column, row, s);
sheet.addCell(label);
}
private void addNumber(WritableSheet sheet, int column, int row,
Integer integer) throws WriteException, RowsExceededException {
Number number;
number = new Number(column, row, integer);
sheet.addCell(number);
}
private void addLabel(WritableSheet sheet, int column, int row, String s)
throws WriteException, RowsExceededException {
Label label;
label = new Label(column, row, s);
sheet.addCell(label);
}
public static void main(String[] args) throws WriteException, IOException {
Xsldata test = new Xsldata();
Xsldata test1 = new Xsldata();
test.setOutputFile("I:\\Sample.xls");
test.write();
```

```
test1.read();
System.out.println("Please check the result file under I:\\Sample1.xls ");
  }
}
```

Output:

```
Total number of students who scored more than 100 is: 5
Please check the result file under I:\Sample1.xls
BUILD SUCCESSFUL (total time: 0 seconds)
```

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