PRACTICAL NO 03

AIM : Write a program using Selenium WebDriver to update 10 student records in an Excel file. Perform data manipulation and verification.

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. TenRecords)
4.   Click Finish – Click Yes
5.   Right Click "TenRecords" project
6.   Click "Java Build Path"
7.   Click Libraries tab
8.   Click "Add External JARs" button
9.   Add external jar files: jxl.2.6.jar file
10.   Click OK
11.   Create a new class file as "xslData" in the "TenRecords" by right click on src folder.
12.   Write the code-

```java
package tenRecordExcel;
import java.io.File;
import java.io.IOException;
import jxl.Workbook;
import jxl.write.Label;
import jxl.write.Number;
import jxl.write.WritableSheet;
import jxl.write.WritableWorkbook;
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();
}
private void createLabel(WritableSheet sheet)
```

```java
    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 addLabel(WritableSheet sheet, int column, int row, String s)
    throws WriteException, RowsExceededException {
        Label label;
        label = new Label(column, row, s);
        sheet.addCell(label);
    }

    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);
    }
    public static void main(String[] args) throws WriteException, IOException {
        xslData test = new xslData();
        test.setOutputFile("C:\\Users\\rhucha1\\eclipse-workspace\\Pract5\\p5.xls");
        test.write();
        System.out.println("Please check the result file under C:\\Users\\rhucha1\\eclipse-workspace\\Pract5\\p5.xls");
    }

}
```
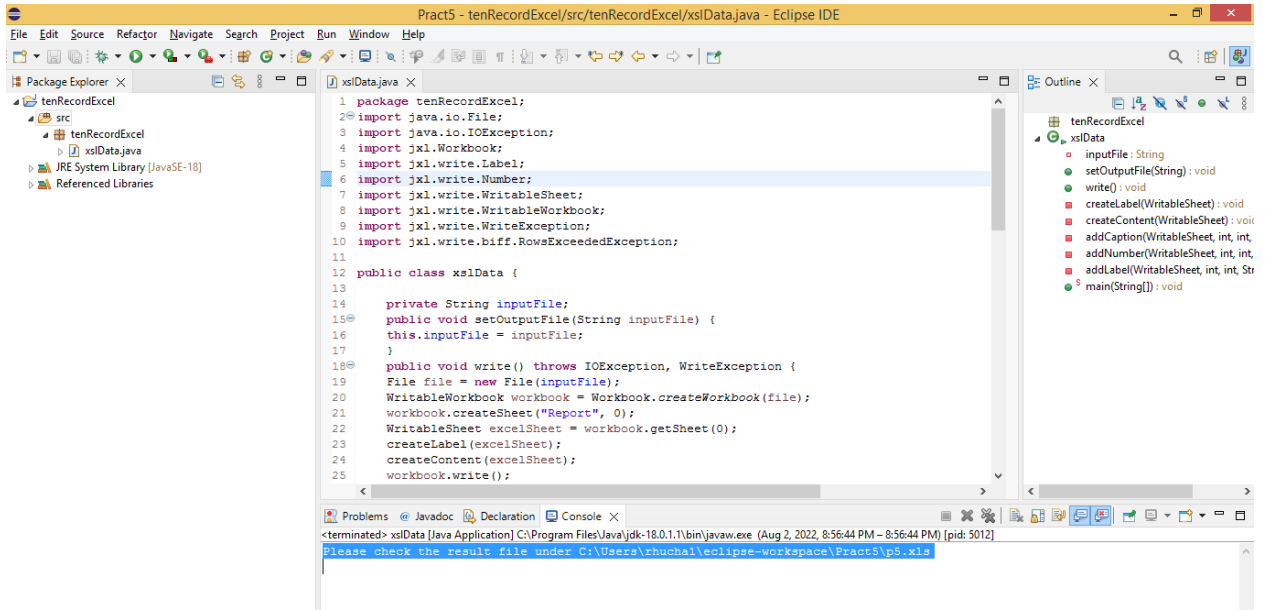
13.   Create a file in a folder in any drive for showing the Excel sheet (output).

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