Practical No. 6

Creating a Excel File using Java

**Q.1]** Write and test a program to Create & insert 10 student records into a table into Excel file.

**Note:**

1. There was no need to create the excel file
2. No need to import the JAR file

**Codes**

**[pom.xml]:**

<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">

<modelVersion>4.0.0</modelVersion>

<groupId>p6</groupId>

<artifactId>p6</artifactId>

<version>0.0.1-SNAPSHOT</version>

<dependencies>

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-java</artifactId>

<version>4.10.0</version>

</dependency>

<!-- https://mvnrepository.com/artifact/org.seleniumhq.selenium/selenium-java -->

<dependency>

<groupId>org.seleniumhq.selenium</groupId>

<artifactId>selenium-chrome-driver</artifactId>

<version>4.10.0</version>

</dependency>

<dependency>

<groupId>net.sourceforge.jexcelapi</groupId>

<artifactId>jxl</artifactId>

<version>2.6.12</version>

</dependency>

</dependencies>

</project>

**[maintest.java]:**

package p6;

import java.io.File;

import java.io.IOException;

import java.util.Locale;

import jxl.CellView;

import jxl.Workbook;

import jxl.WorkbookSettings;

import jxl.format.UnderlineStyle;

import jxl.write.Label;

import jxl.write.Number;

import jxl.write.WritableCellFormat;

import jxl.write.WritableFont;

import jxl.write.WritableSheet;

import jxl.write.WritableWorkbook;

import jxl.write.WriteException;

import jxl.write.biff.RowsExceededException;

public class maintest {

private WritableCellFormat timesBoldUnderline;

private WritableCellFormat times;

private String inputFile;

public void setOutputFile(String inputFile) {

this.inputFile = inputFile;

}

public void write() throws IOException, WriteException {

File file = new File(inputFile);

WorkbookSettings wbSettings = new WorkbookSettings();

wbSettings.setLocale(new ~~Locale~~("en", "EN"));

WritableWorkbook workbook = Workbook.*createWorkbook*(file, wbSettings);

workbook.createSheet("Report", 0);

WritableSheet excelSheet = workbook.getSheet(0);

createLabel(excelSheet);

createContent(excelSheet);

workbook.write();

workbook.close();

}

private void createLabel(WritableSheet sheet)

throws WriteException {

// Lets create a times font

WritableFont times10pt = new WritableFont(WritableFont.***TIMES***, 10);

// Define the cell format

times = new WritableCellFormat(times10pt);

// Lets automatically wrap the cells

times.setWrap(true);

// Create a bold font with underlines

WritableFont times10ptBoldUnderline = new WritableFont(

WritableFont.***TIMES***, 10, WritableFont.***BOLD***, false,

UnderlineStyle.***SINGLE***);

timesBoldUnderline = new WritableCellFormat(times10ptBoldUnderline);

// Lets automatically wrap the cells

timesBoldUnderline.setWrap(true);

CellView cv = new CellView();

cv.setFormat(times);

cv.setFormat(timesBoldUnderline);

//cv.setAutosize(true);

// Write a few headers

addCaption(sheet, 0, 0, "Student Name");

addCaption(sheet, 1, 0, "Subject 1");

addCaption(sheet, 2, 0, "subject 2");

addCaption(sheet, 3, 0, "subject 3");

}

private void createContent(WritableSheet sheet) throws WriteException,

RowsExceededException {

// Write a few number

for (int i = 1; i< 10; i++) {

// First column

addLabel(sheet, 0, i, "Student " + i);

// Second column

addNumber(sheet, 1, i, ((i\*i)+10));

addNumber(sheet, 2, i, ((i\*i)+4));

addNumber(sheet, 3, i, ((i\*i)+3));

}

}

private void addCaption(WritableSheet sheet, int column, int row, String s) throws RowsExceededException, WriteException {

Label label;

label = new Label(column, row, s, timesBoldUnderline);

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, times);

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, times);

sheet.addCell(label);

}

public static void main(String[] args) throws WriteException, IOException {

maintest test = new maintest();

test.setOutputFile("C:\\Users\\Siddhesh\\Documents\\Ruia\\SEM V\\SEM\_V\\Codes\\STQA\\p6output.xls");

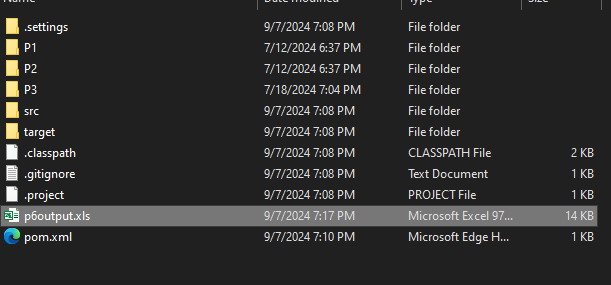
test.write();

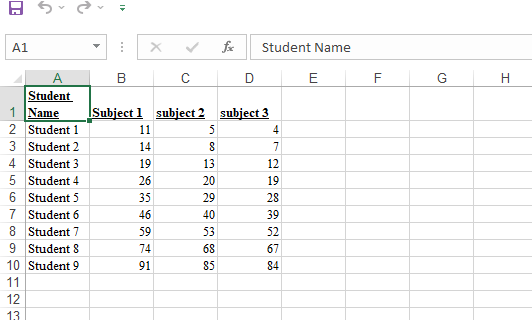
System.***out***.println("Please check the result file under C:\\Users\\Siddhesh\\Documents\\Ruia\\SEM V\\SEM\_V\\Codes\\STQA\\ ");

}

}

**Output:**

****

****