#503(prac5)---03/08/19---

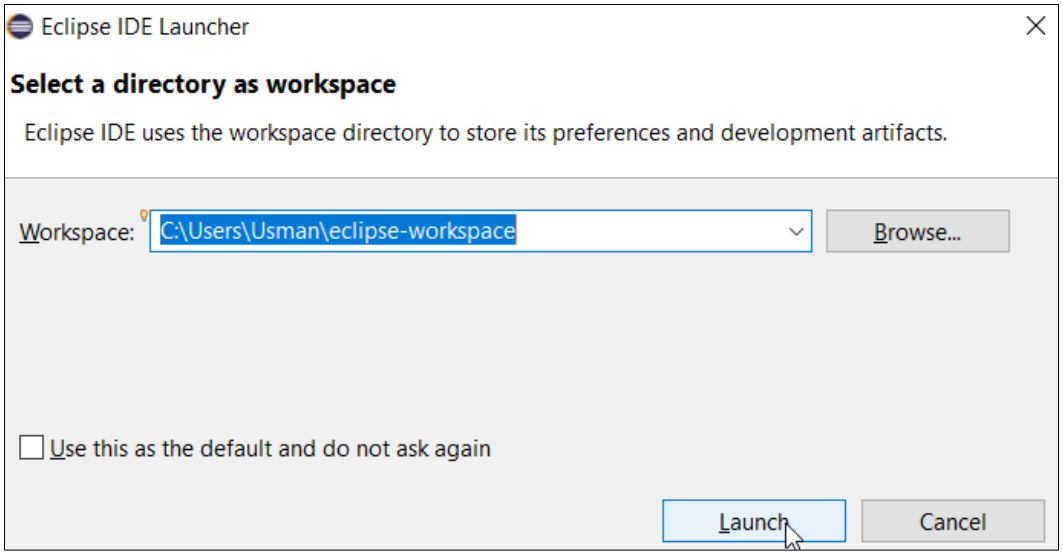
#AIM: Write and test a program to update 10 student records into Excel file(table).

PRE-REQUISITES:

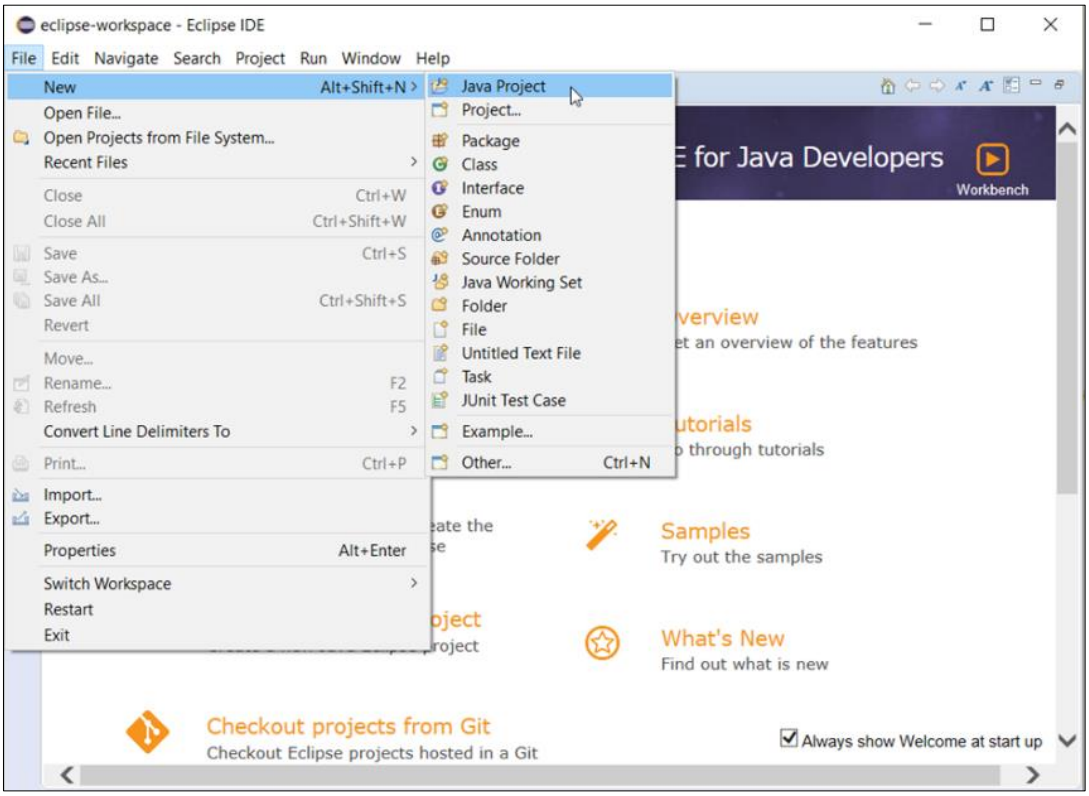
1) Check that you have **Eclipse IDE**.
2) To Download "**JXL.JAR**":
   - **Visit** http://www.java2s.com/Code/Jar/j/Downloadjxl26jar.htm
   - **Download** this file: "jxl/jxl-2.6.jar.zip(603 k)" and **extract it**.(you'll get the .jar file)

STEPS:

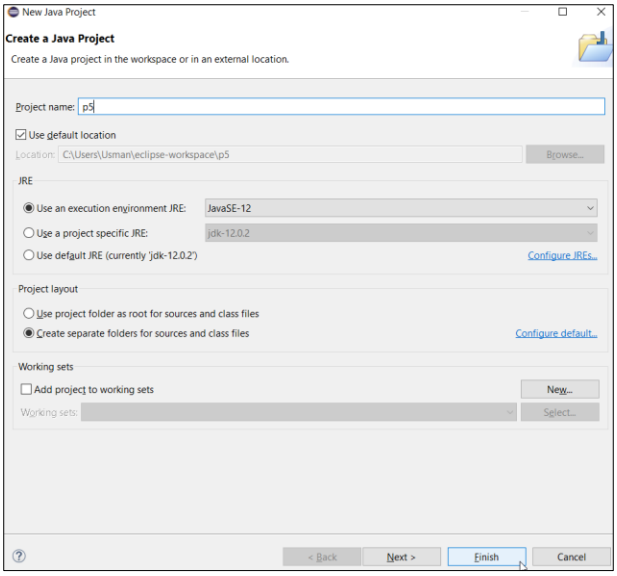
1) **Open Eclipse**. Select your workspace directory. Click **Launch:**

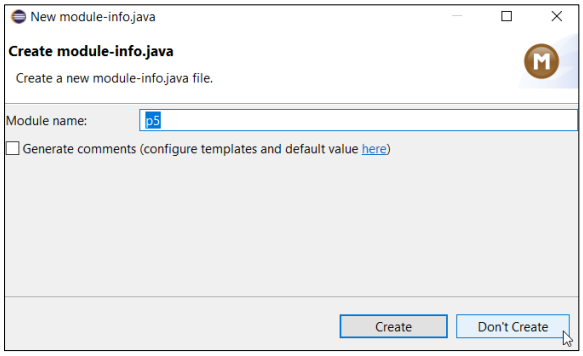


2) **Create** a Project(**File > New > Java Project**):



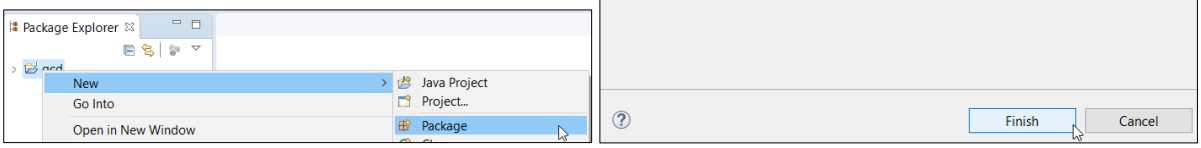
3) **Name the project** as “p5” **>** click **Finish >** click **Don’t Create** module:



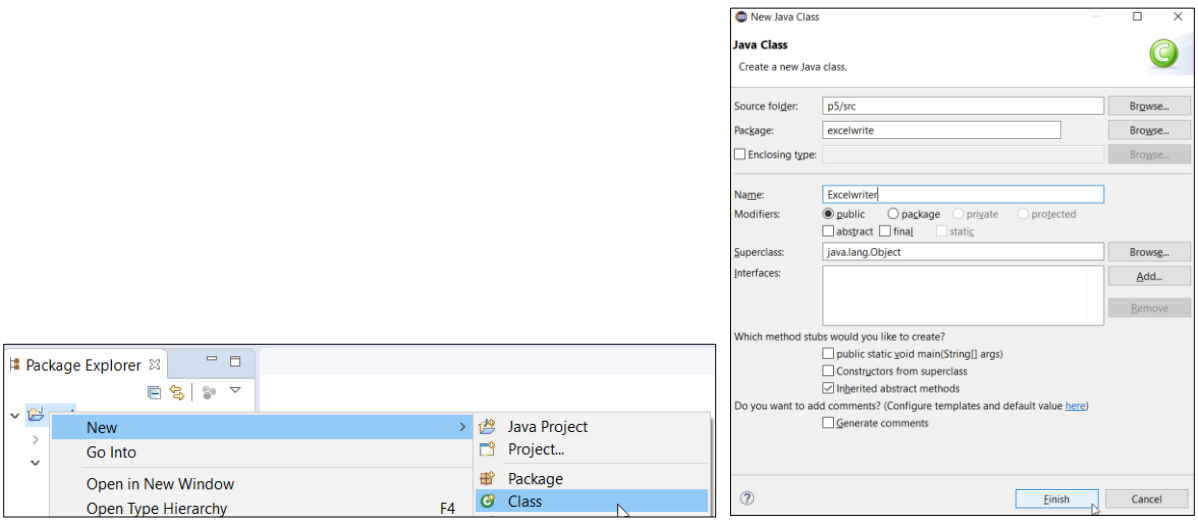


4) **Close the “Welcome” tab**.

5) **Create** a Package(**right-click on Project Name > New > Package > Name** it **> Finish**):

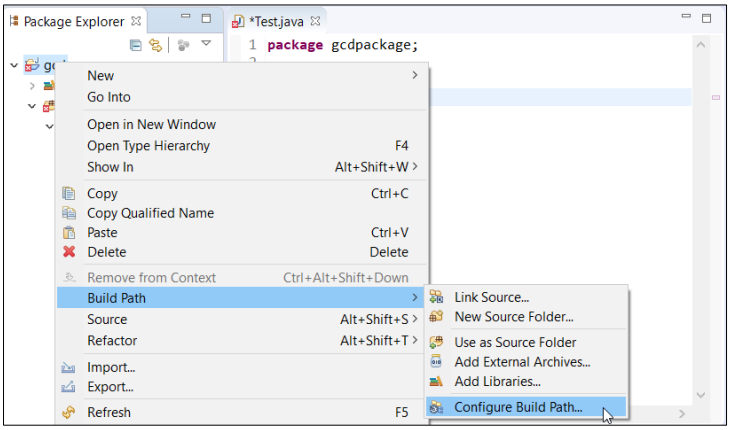


6) **Create** a Class(**right-click on Project Name > New > Class > Name** it **> Finish**):

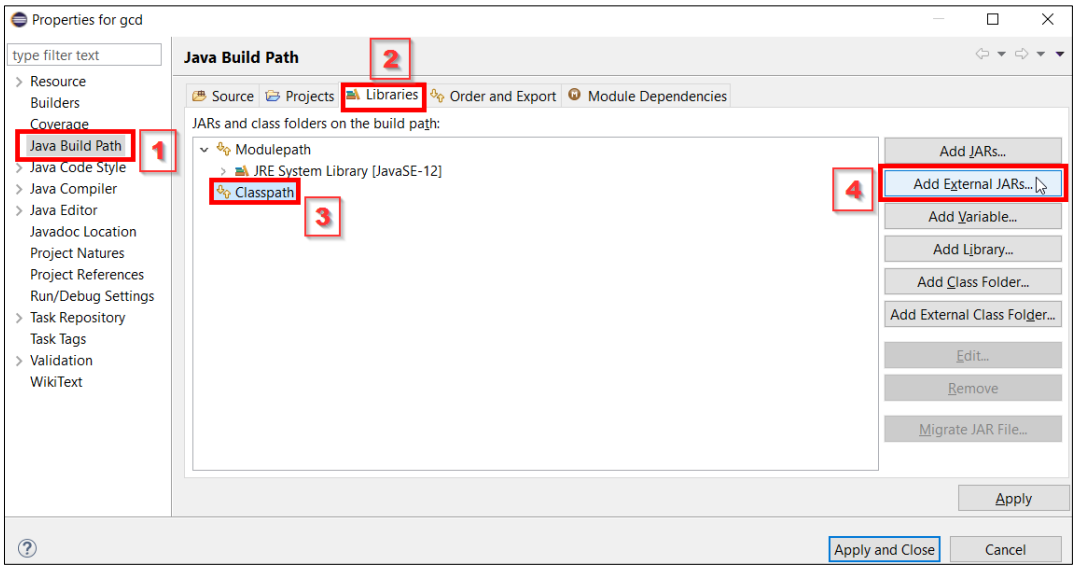


7) Adding "**JXL(JAR file)"** in Eclipse IDE:

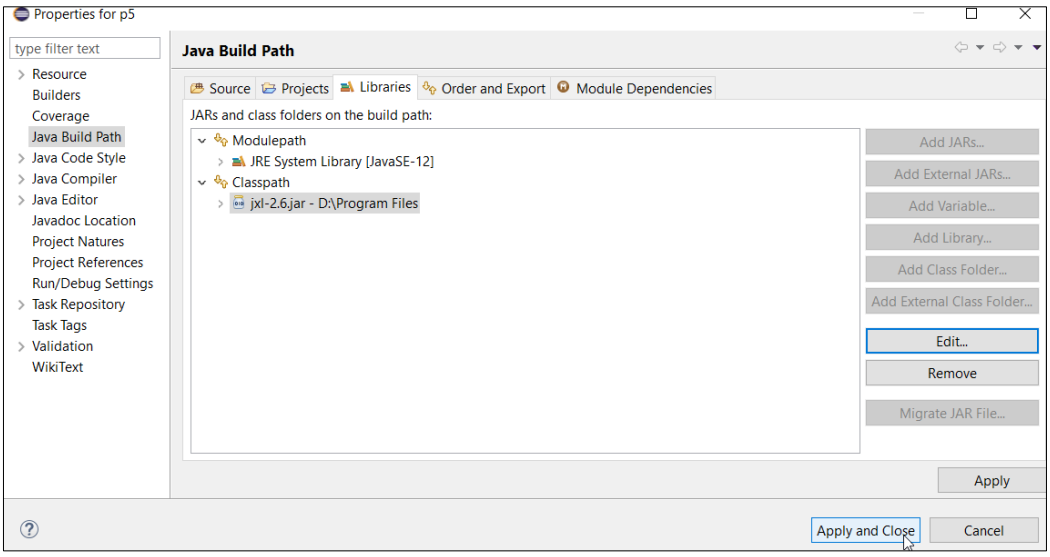
- **right-click on Project Name > Build Path > Configure Build Path…**



- now go under: **Java Build Path > Libraries > Classpath >** click **Add External JARs…**



- Browse and **add JAR file >** click **Apply and Close :**



8) Creating the ***script*** *in JAVA*:

(NOTE that this **script** will be run by Eclipse IDE)

(In simple words, it's like we are

-ordering Eclipse to run a script or to do a job

-of creating and opening .xls file

-and putting the values in the cells with the help of jxl.jar

-and to show the result.

-Hence automating the work in a local system(PC)).

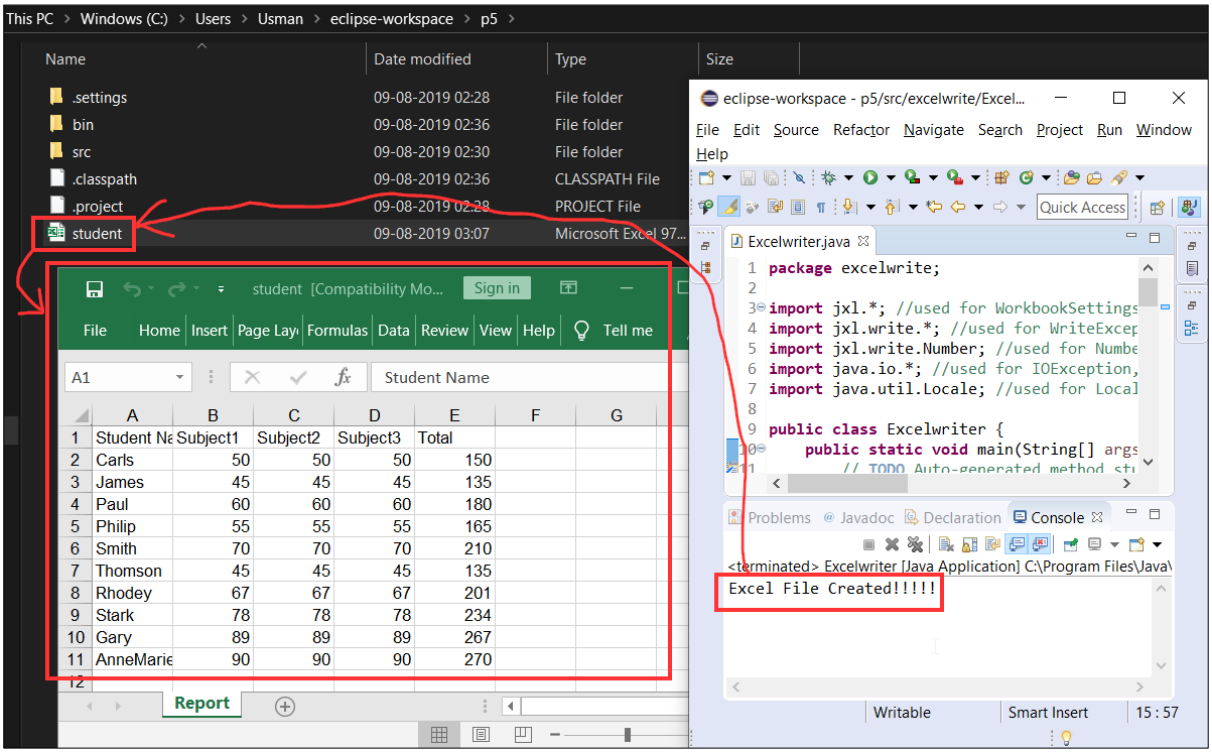
---(Excelwriter.java)---

```
package excelwrite;

import jxl.*; //used for WorkbookSettings,Workbook
import jxl.write.*; //used for WriteException,WritableWorkbook,WritableSheet,Label
import jxl.write.Number; //used for Number
import java.io.*; //used for IOException,File
import java.util.Locale; //used for Locale

public class Excelwriter {
	public static void main(String[] args) throws IOException,WriteException {
		// TODO Auto-generated method stub
		int r=0,c=0;
		String header[]={"Student
Name","Subject1","Subject2","Subject3","Total"};
		String
sname[]={"Carls","James","Paul","Philip","Smith","Thomson","Rhodey","Stark","Gary"
,"AnneMarie"};
		int marks[]={50,45,60,55,70,45,67,78,89,90,30};

		File file = new File("student.xls");
		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);
		//creating header row
		for(r=0;r<1;r++) {
			for(c=0;c<header.length;c++) {
				Label l=new Label(c,r,header[c]);
				excelSheet.addCell(l);
			}
		}
		//filling name in column1
		for(r=1;r<=sname.length;r++) {
			for(c=0;c<1;c++) {
				Label l=new Label(c,r,sname[r-1]);
				excelSheet.addCell(l);
			}
		}
		//filling name in column2,3,4
		for(r=1;r<=sname.length;r++) {
			for(c=1;c<4;c++) {
				Number num = new Number(c, r, marks[r-1]);
				excelSheet.addCell(num);
			}
		}
```

```
                //filling name in total
                for(r=1;r<=sname.length;r++) {
                        for(c=4;c<5;c++) {
                                int total=marks[r-1]+marks[r-1]+marks[r-1];
                                Number num = new Number(c, r, total);
                                excelSheet.addCell(num);
                        }
                }
                workbook.write();
                workbook.close();
                System.out.println("Excel File Created!!!!!");
        }
}
```

9) Run the file from Eclipse IDE:

- **OUTPUT:**



10) Finish!

What is JXL.JAR:

-Java libraries are distributed as a ".jar" file

-jxl.jar is the library of JExcelApi , which is open source java API to read, write, and modify Excel spreadsheets dynamically. It contains all the compiled *.class files, associated metadata and resources that are used by the Java Excel API internally .