#503(prac6)---24/08/19---

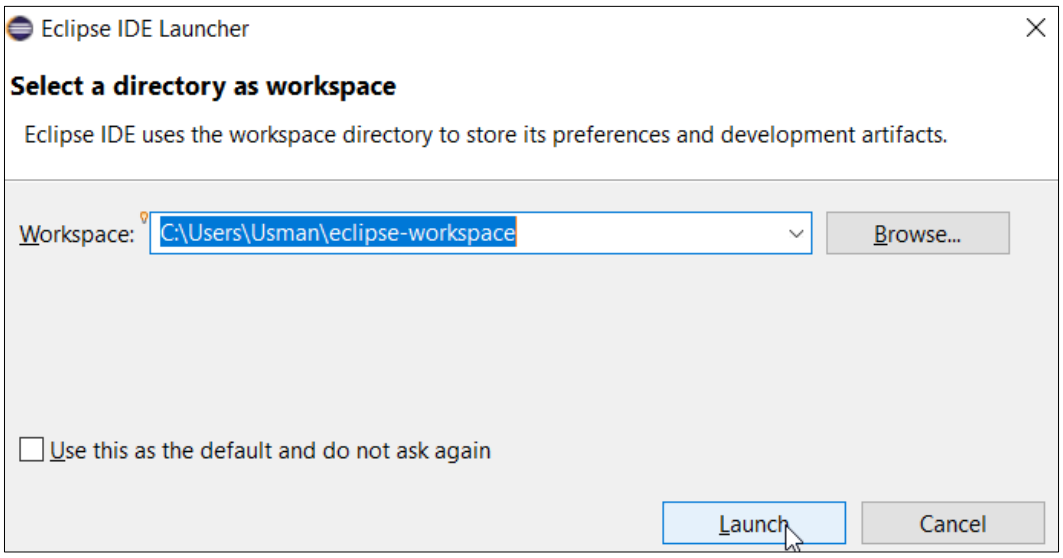
#AIM: Write and test a program to select the number of students from Excel file(table) who have scored 60 or more in any one subject(or all subjects).

PRE-REQUISITES:

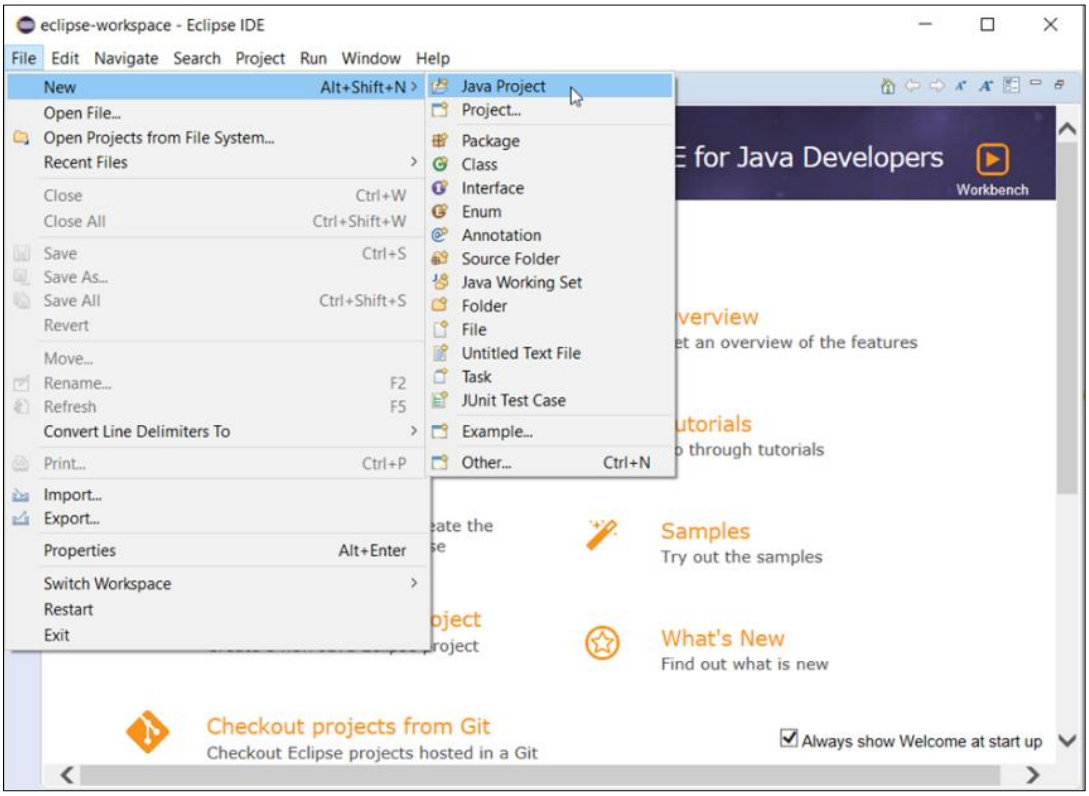
1) Check that you have **Eclipse IDE**.
2) Check that you have **JXL.JAR**.
3) Check that you've the ***Excel file****("student.xls")* that we'll be working on for reading data.

STEPS:

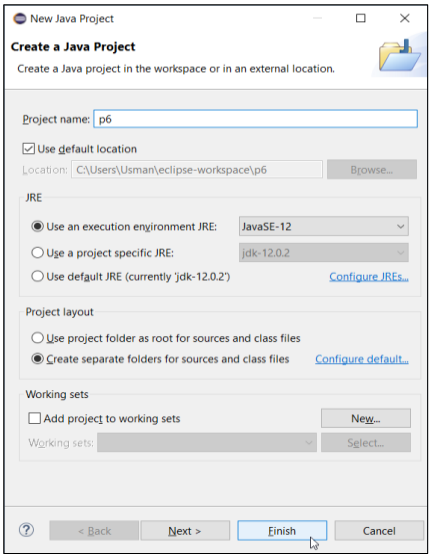
1) **Open Eclipse**. Select your workspace directory. Click **Launch:**

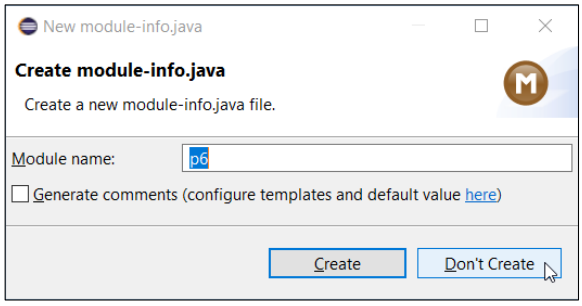


2) **Create** a Project(**File > New > Java Project**):



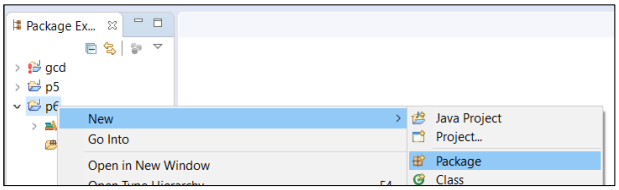
3) **Name the project** as “p6” **>** click **Finish >** click **Don’t Create** module:

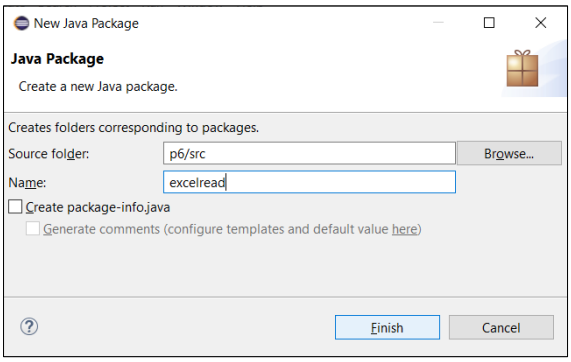




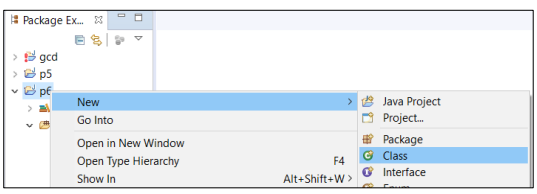
4) **Close the “Welcome” tab**.

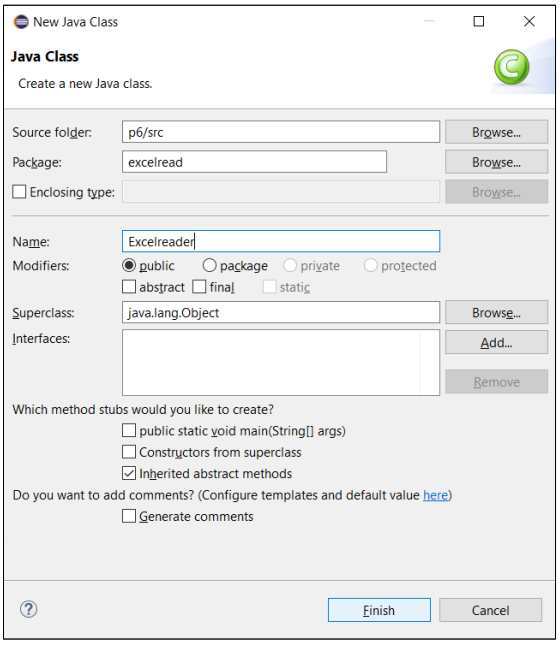
5) **Create** a Package(**right-click on Project Name > New > Package > Name** it **> Finish**):





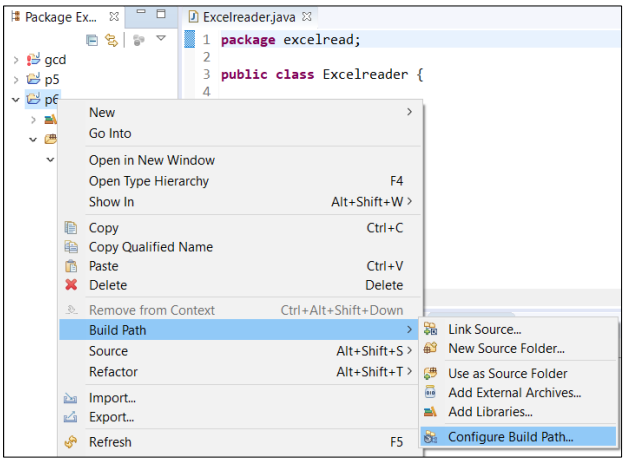
6) **Create** a Class(**right-click on Project Name > New > Class > Name** it **> Finish**):



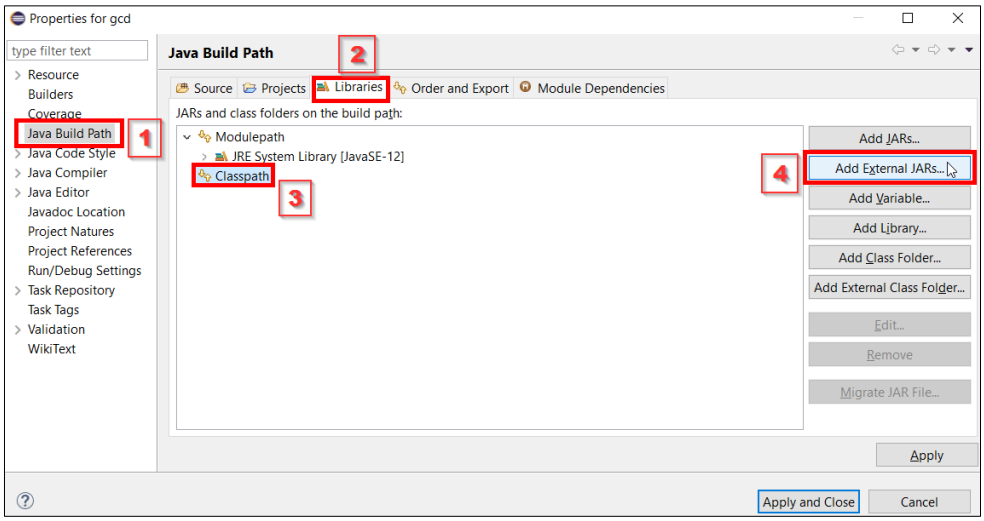


7) Adding "**JXL(JAR file)"** in Eclipse IDE:

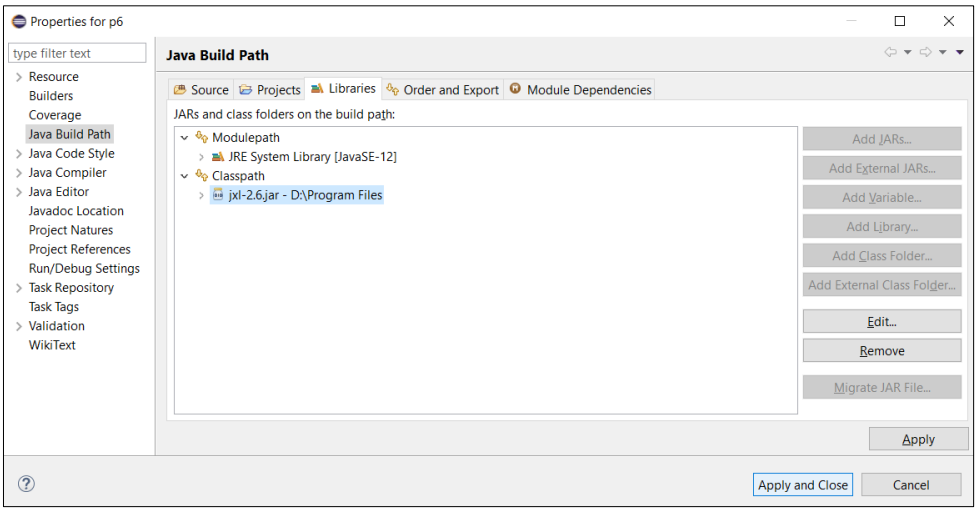
- **right-click on Project Name > Build Path > Configure Build Path…**



- 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 opening .xls file

-and fetching the marks count>=60 from the cells with the help of jxl.jar

-and to show the result.

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

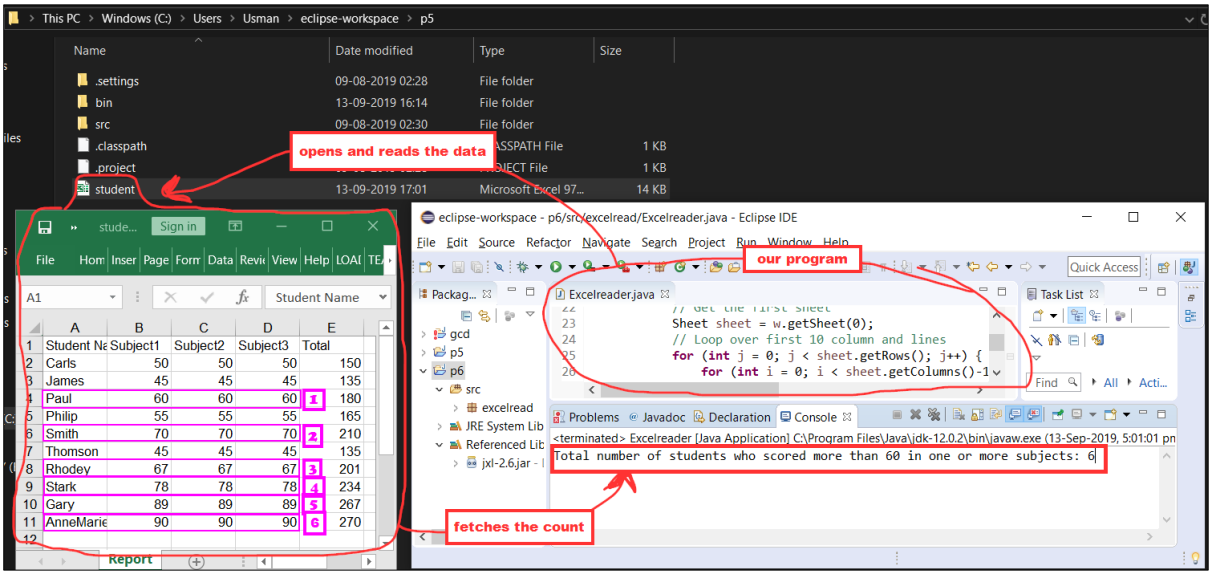
---(Excelreader.java)---

```
package excelread;

import java.io.File;
import java.io.IOException;
import jxl.Cell;
import jxl.CellType;
import jxl.Sheet;
import jxl.Workbook;
import jxl.read.biff.BiffException;

public class Excelreader {
	private String inputFile;
	public void setInputFile(String inputFile) {this.inputFile = inputFile;}

	public void read() throws IOException {
		File inputWorkbook = new File(inputFile);
		Workbook w;
		boolean flag=false;
		int count=0;
		try {
			w = Workbook.getWorkbook(inputWorkbook);
			// Get the first sheet
			Sheet sheet = w.getSheet(0);
			// Loop over first 10 column and lines
			for (int j = 0; j < sheet.getRows(); j++) {
				for (int i = 0; i < sheet.getColumns()-1; i++) {
					Cell cell = sheet.getCell(i, j);
					if (cell.getType() == CellType.NUMBER) {

	if(Integer.parseInt(cell.getContents())>=60){
							flag = true;
							if(flag == true){
								count++;
								flag=false;
							}
							break;
						}
					}
				}
			}
			System.out.println("Total number of students who scored more
than 60 in one or more subjects: " +count);
		}
		catch (BiffException e) {e.printStackTrace();}
	}
```

```
	public static void main(String[] args) throws IOException {
		Excelreader test = new Excelreader();
		test.setInputFile("C:\\Users\\Usman\\eclipse-
workspace\\p5\\student.xls");
		test.read();
	}
}
```

9) **Run** the file from Eclipse IDE:

- **OUTPUT:**



10) **Finish!**