

Lab 10

Objectives:

- Learn how to program with 2d arrays and nested loops.

Project:

You will create a Java application using BlueJ that stores and prints homework scores:

The program should ask how many students and how many homework assignments are in the class. You will then create a two dimensional array to store this information. The scores will be gathered using nested for loops and stored in the array (one row for each student, one column for each homework). After gathering the score, the program will print two different representations of the scores, one by student, and the other by homework. Note that the scores will be integers.

E.g.:

```
How many students? 3
How many homeworks? 2
```

```
For Student 1:
What is the score for homework #1? 85
What is the score for homework #2? 90
```

```
For Student 2:
What is the score for homework #1? 75
What is the score for homework #2? 95
```

```
For Student 3:
What is the score for homework #1? 65
What is the score for homework #2? 55
```

```
Scores:
Student x Homework:
85 90
75 95
65 55
```

```
Homework x Student:
85 75 65
90 95 55
```

User input is in *red*. Notice that we display the data in two different formats, one in which we go student by student, each row will have all the grades for a particular student. The second format displays the data homework by homework, so all the scores for homework #1 are on the first line, all the scores for homework #2 are on the second line, and so forth.