

## Lab 15

## Objectives:

- Learn how to read and write files.

## Project:

You will create a Java application using BlueJ that reads in a file containing scores and then outputs a file containing statistics.

The program should read a CSV file containing grades. In each line there are grades for each student. Every homework grade is separated by a comma. For example, in the `input.csv` file, you may have the line:

```
85, 75, 65
```

This means that for this student, they received an 85 on the first homework, a 75 on the second, and 65 on the third. The first row represents the grades for student 1, the second for student 2, and so forth. Your program is to generate various statistics about the grades and then output those statistics into another file called `results.txt`

The report should contain the *lowest, highest, and average* score for each homework. For example, if **input.csv** contains:

```
85, 75, 65
92, 54, 100
89, 78, 92
```

Then **results.txt** should contain:

```
Homework 1:
  Lowest: 85
  Highest: 92
  Average: 88.6666666
```

```
Homework 2:
  Lowest: 54
  Highest: 78
  Average: 69
```

```
Homework 3:
  Lowest: 65
  Highest: 100
  Average: 85.6666666
```

**Note:** It would be easiest to use a `StringTokenizer` to break up the grades in each line.

*Don't forget "import java.io.\*;" and "throws IOException".*