



COMP 113 & 152 - Computer Programming I (3,1,1)

Fall 2004

Lab Exercise 4

Due: *Beginning of lab session in the week of October 12 to 14, 2004.*

Self-Review Questions: (*answers are provided at the end of the chapter*)

1. page 115, questions: #5, #6
2. page 122, question: #10
3. page 127, questions: #12, #14
4. page 140, questions: #18, #20

Lab Preparation:

Review your notes on the: *if-else if-else if-...-else*, and *while* loop structures.
Review pages 120 and 121, and p. 129 of the text.

Problems:

Create program solutions for the following problems.

1. [Save as a new program file] Modify the program completed last week to read a series of values entered and separated by commas.

Consider the following interaction (it does not matter whether using CLI or GUI):

```
Provide a series of values to sum.
```

```
Values: 1, 5, -10, 20, 15, 40
```

```
The sum of the values is: 71
```

(Note the commas that separate the values!)

2. Do Programming Project 1 on page 177. The user should finish the program by typing “goodbye!” (upper or lower case) and the program should answer “Good bye my friend!” before finishing.
3. Write the program described in Programming Project 3 (page 178). Ask the user for the number of data items rather than using a sentinel value, as described in the text.
Hint: *You will require at least 5 variables: smallest, largest, average, counter, and user's input.*
4. [Extra-Challenge] Write the program described in Programming Project 8 (page 179).
Hint: *Two loops are required (one within the other): the outer loop to control the # of rows, and the inner loop to control the number of stars (*) being drawn per row.*

Results:

For problems #1, #2, and #3, submit a print of the program's source code and screen captures (problem #4 is intended as personal study and challenge).