CSI 465 Compiler Design

LAB 6: Nested Structures

Objectives:

- a) Understand how nesting various structures are implemented in assembly language.
- b) Understand the interrelationship of for loops, while loops, and if-else statements.
- 1) <u>Exercises</u>:
 - a) Type the following code in a program in Frances.

- i) Write the assembly code associated with each line next to the line.
- ii) Explain exactly what is occurring in this assembly code.
- iii) Is this what you expected? Why or why not?
- b) Type the following code in a program in Frances.

- i) Write the assembly code associated with each line next to the line.
- ii) How does this differ from the nesting the conditional in the loop?
- iii) Is this what you expected? Why or why not?

c) Type the following code in a program in Frances.

- i) Write the assembly code associated with each line next to the line.
- ii) Explain exactly what is occurring in this assembly code.
- iii) Is this what you expected? Why or why not?
- d) Type the following code in a program in Frances.

i) How does the assemble code differ from the previous example?

e) Type the following code in a program in Frances.

i)

Write the assembly code associated with each line next to the line.