CSI 465 Compiler Design

LAB 4: Decisions

Objectives:

- a) Understand how decision statements are coded into assembly language.
- b) Understand the differences in programming various relational operators.
- 1) Exercises:
 - 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) What changes in the code if you replace < with <= ?
 - (1) > ?
 - (2) >= ?
 - (3) = = ?
 - (4) != ?
- iv) What changes in the assembly code if you create a variable 'y', set y=7; and then compare x to y rather than the value 7? Why do you suppose it is done this way?