**Assessment**

Write a program will allow a user to enter multiple "sets," via prompt that appears in a terminal window that will allow a user to perform basic set operations. The basic set operations are: UNION (represented by a”+”), INTERSECTION (represented by a “\*”), COMPLIMENT (represented by “~”), SUPER SET (represented by “>”). SUBSET (represented by “<”, and EQUIVILENT (represented by “==”).

Sets will be assigned to a “variable name” and will be entered as SET X = {<comma separated values>}

The program ends when the user enters EXIT.

Thus if a user entered:

SET A = {1,2,3}

SET B = {3,4,5}

SET C = A + B

Then

C would contain {1,2,3,4,5)

and

SET C = A \* B

then C would contain {3}

Commands the user can use shall be:

LIST - List all sets and their contents

HELP - Give help

SET - Enter a set (can be a definition or the union, or intersection, of two previously defined sets)

Compliment of a set will be represented by a tilde (~). So, if a user enters SET A = ~B then B's compliment will be stored within A

The "universe" will be the numbers 0 to 15.

LOAD/SAVE a file

Empty line exits the program.