Exercise 1

Check Capital or not (between 65 and 90 )(lower case is 97 to 122)

+- 32

LDAA #

CMPA #96

BMI changeToLowercase

BML branch if plus

Break out of loop/end program when we get to NULL/carriage return

Set labels for which function to use (stored in memory)

Loading string:

Load A with null ascii value

Load B with 0

Alpha fcc “def”

Y for storing new result

Load alpha into X (index register)

Load function

Loop:

checkIfTerminate

checkIfLetter (register value , code for function)

Increment pointer (alpha)

Branch if statement

Loop

INCB

Functions:  
checkIfLetter (comparing the ascii value) (if not letter, “skip”):

checkIfUpperLower

checkIfTerminate (check for null/carriage return)

convertToUpper

convertToLower (depending on condition)

capFirstLetter (all other letter are lower case)

capSentences (capitalize first letter and first letter after full stops)