Lab 5 Report

In this lab I started off by printing the string “enter a decimal or X to exit”. I did this by creating the .STRINGZ at the bottom and using LEA near the top with PUTS to output it. From their I worked on creating the initial loop without detecting the negative and implemented the negative later. I detected things such as the negative and the X by subtracting that asci value from the digit inputted and I used BRz to detect if it was that exact umber. From their I used an addition loop to get the binary numbers 1, 01, 001, 0001 etc. to AND with my input and detect each value. I then realized it was printing in reverse so I did a second loop which based on my counter would work in the opposite direction.