.ORIG x0000

| START: | LEA JSR | R0,MYMSG PUTSMSG | ; Load the Message Effective Address ; Call the Puts Message subroutine (PUTS) |
|-----------|-------------|---------------------|--|
| AGAIN: | JSR JSR | GETCHAR PUTCHAR | ; Call the Get Char subroutine (GETC) ; Call the Put Char suboutine (OUT) |
| END: | BR | AGAIN | ; Wait for another character |
| GETCHAR: | ? | | ; Read the Keyboard Status Register (KBSR) to check if there is a new char available (x8000) |
| | ? | | ; If KBSR != x8000, jump to GetChar |
| | ? | | ; Read the Keyboard Data Register (KBDR) to take the incoming character |
| | ? | | ; Subroutine return |
| PUTCHAR: | ? | | ; Store R0 into memory to keep a copy of the incoming character |
| PUTCHAR2: | ? | | ; Read the Display Status Register (DSR) to check if a character can be transmitted (x8000) |
| | ? | | ; If (DSR != x8000), jump to PutChar2 |
| | ? | | ; Restore the character taken from the |
| | | | Keyboard to be sent to the display |
| | ? | | ; Write the Display Data Register (DDR) with the character taken from the |
| | | | Keyboard |
| | ? | | ; Subroutine return |
| PCR0: | .FILL | 0 | |
| PUTSMSG: | ? | | ; Store R0 into memory to keep a copy of the next char address |
| | ? | | ; Load the char to be sent |
| | ? | | ; Return if the char is NULL |
| | ? | | ; Store R7 because is needed by RET instruction |
| | ? | | ; Send the char in R0 |
| | ? ? ? | | ; Restore R7 |
| | ? | | ; Restore the address of the char sent |
| | ? | | ; Compute the address of the next char |
| | ? | | ; Send the next char |
| PUTSMSGE: | ? | | ; Subroutine return |
| PMR0 | .FILL | 0 | |
| PMR7 | .FILL | 0 | |
| KBSR: | .FILL | xFE00 | ; Keyboard Status Register Address |
| KBDR: | .FILL | xFE02 | ; Keyboard Data Register Address |
| DSR: | .FILL | xFE04 | ; Display Status Register Address |
| DDR: | .FILL | xFE06 | ; Display Data Register Address |
| MYMSG: | .STRINGZ | | me to the ConsoleEchoing program e type any char you want to echo: " |
| | END | teat. IIIIII least | s type any onar you want to cond. |

.END