```
1:
    #Sawyer Fenwick 6005011
2: #COSC 2P12 Assign_3
3: #PART A
4: #This code asks the user for input and returns the number they inputed (n) and prints
5: #If the number entered is negative it asks the user to input a different number.
6:
7: .data
           .asciiz "Please Enter A Non-negative Value: "
8: msa:
9: err: .asciiz "Error: Value Is Negative. Please Try Again."
          .asciiz "*"
10: star:
11:
      .text
12: main:
13:
       li $t2, 0
                    #temporary variable for "loop" (line 32)
14:
15:
       la $a0, msg #loads a0 with msg
16:
       li $v0, 4
                    #syscall print_str (asking user for input)
       syscall
17:
18:
19:
       li $v0, 5
                    #syscall read_int (recieving user input)
20:
       syscall
21:
22:
       blt $v0, $t2, error #if integer read is negative goto error
23:
24:
       la $a0, ($v0)
                      #loading a0 with contents of v0 (user input)
25:
       la $t1, ($v0) #loading t1 with contents of v0 to use in for loop later
26:
       li $v0, 1 #syscall print_int (printing input)
27:
       syscall
28:
29:
       li $a0, 10 #loading a0 with newline char
30:
        li $v0, 11 #syscall print_char
31:
        syscall
32: loop:
33:
       beq $t1, $t2, exit $t2$ when t2 == t1 break
34:
        addi $t2, $t2, 1
                           #incrememnt counter
35:
       la $a0, star
                            #load a0 with star
36:
37:
       li $v0, 4
                        #syscall print_str
38:
       syscall
39:
40:
       j loop
                        #repeat (goto line 32)
41: error:
        la $a0, err #load a0 with contents of err
42:
       li $v0, 4
                  #syscall print_str
43:
       syscall
44:
45:
46:
       li $a0, 10 #load a0 with newline char
47:
       li $v0, 11 #syscall print_char
48:
       syscall
49:
50:
        j main
                    #return to main method
```

51: exit:

52: li \$v0, 10 #syscall exit

53: syscall