ML Assignment

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loop UP1

Assignment 2:

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Code:
%macro scall 4
   mov rax,%1
   mov rdi,%2
   mov rsi,%3
   mov rdx,%4
   syscall
%endmacro
section .data
    m2 db 10d,13d,"Entered String: " l2 equ $-m2
    section .bss
    buffer resb 50
    size equ $-buffer
    count resd 1
    dispnum resb 16
section .text
global _start
_start:
    scall 1,1,m1,l1
    scall 0,0,buffer,size mov [count],rax
    scall 1,1,m2,l2 scall 1,1,buffer,[count] scall 1,1,m3,l3
    mov rsi,dispnum+15 mov rax,[count] mov rcx,16
    dec rax
UP1:
    mov rdx,0
    mov rbx,10
    div rbx
    add dl,30h
    mov [rsi],dl
    dec rsi
```

scall 1,1,dispnum,16 mov rax,60 mov rbx,0 syscall

Output: