

Experiment No. 2

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```
section .data
    m2 db 10,10, 'Enter the string:'
    m2_len equ $-m2
    m3 db 'Length of the string is:'
    m3_len equ $-m3

section .bss
    srcstr resb 20
    count resb 1
    dispbuff resb 2

%macro disp 2
    mov eax, 4
    mov ebx, 1
    mov ecx, %1
    mov edx, %2
    int 80h
%endmacro

%macro acceptstr 1
    mov eax, 3
    mov ebx, 0
    mov ecx, %1
    int 80h
%endmacro

section .text
global _start

_start:

    disp m2, m2_len
    acceptstr srcstr
    dec byte [count] ; Corrected to decrement byte at [count]

    disp m3, m3_len
    mov bl, [count] ; Corrected to mov byte to bl
    call display

    mov eax, 1
    int 80h

display:
    mov cl, 2
    mov edi, dispbuff
```

```
d1:
    rol bl, 4
    mov al, bl
    and al, 0Fh
    cmp al, 9
    jbe d2
    add al, 7

d2:
    add al, 30h
    mov [edi], al
    inc edi
    dec cl
    jnz d1

    disp dispbuff, 2
    ret
```

output —

```
Enter the string:Hello world
Hello world
```