Assignment No.3
Write an X86/64 ALP to accept a string and to display its length.

```
%macro disp 2
mov rax ,1
mov rdi,1
mov rsi,%1
mov rdx,%2
syscall
%endmacro

section .data
msg1 db "Enter your string:",0Ah
msglen equ $-msg1

section .bss
 str1 resb 200
 result resb 16
section .text

global  _start
_start:
mov rax,1
mov rdi,1
mov rsi,msg1
mov rdx,msglen
syscall
mov rax,0
mov rdi,0
mov rdi,0
mov rsi,str1
mov rdx,200
syscall
dec rax
mov rbx,rax
call display
mov rax,60
mov rdi,0
syscall

display:
mov rdi,result
mov cx,16
up1
rol rbx,04
mov al,bl
```

```
and al,0fh
cmp al,09h
jg add_37
add al,30h
jmp skip

add_37:
add al,37h

skip:
mov[rdi],al
inc rdi
dec cx
jnz up1
disp result,16
ret
```