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**Batch: D**

**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],a l inc rdi dec cx

jnz up1 disp

result,16

ret

Output

