

Assignment No : 3

```
%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
```

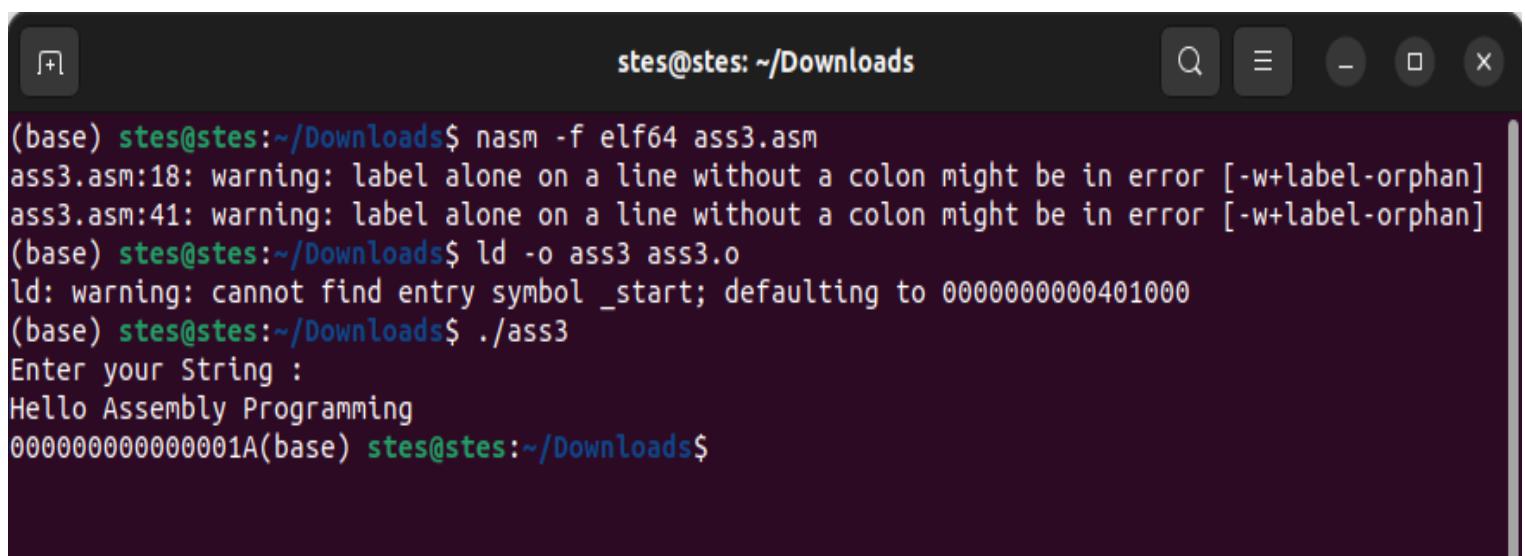
```
    and al,0fh
    cmp al,09h
    jg add_37
    add al,30h
```

```
jmp skip
```

```
add_37:  
add al,37h
```

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

Output:



A screenshot of a terminal window titled "stes@stes: ~/Downloads". The terminal shows the following command-line session:

```
(base) stes@stes:~/Downloads$ nasm -f elf64 ass3.asm
ass3.asm:18: warning: label alone on a line without a colon might be in error [-w+label-orphan]
ass3.asm:41: warning: label alone on a line without a colon might be in error [-w+label-orphan]
(base) stes@stes:~/Downloads$ ld -o ass3 ass3.o
ld: warning: cannot find entry symbol _start; defaulting to 00000000000401000
(base) stes@stes:~/Downloads$ ./ass3
Enter your String :
Hello Assembly Programming
0000000000000001A(base) stes@stes:~/Downloads$
```