

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
```

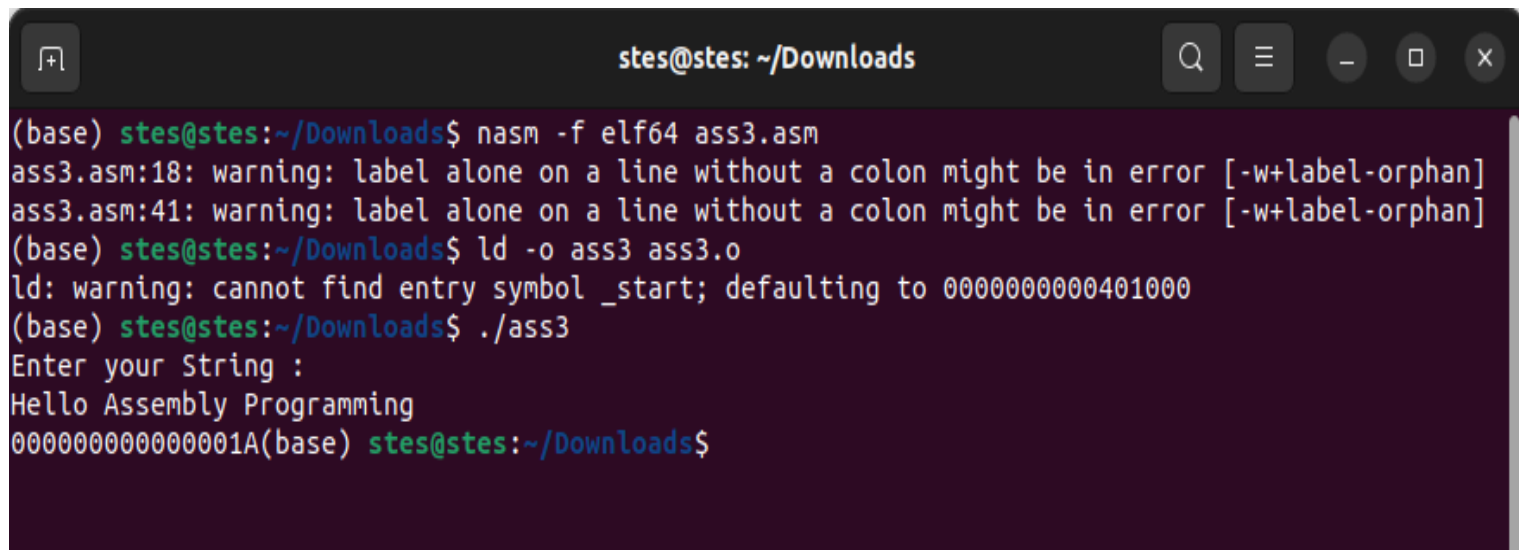
```
and al,0fh
cmp al,09h
jg add_37
add al,30h
```

jmp skip

add_37:
add al,37h

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

Output:

A terminal window titled 'stes@stes: ~/Downloads' with standard Linux window controls. The terminal shows the following commands and output:

```
(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 0000000000401000
(base) stes@stes:~/Downloads$ ./ass3
Enter your String :
Hello Assembly Programming
000000000000001A(base) stes@stes:~/Downloads$
```