;Assignment No 2

```
section .data
   msg1 db 10,13,"Enter 5 64 bit numbers = "
   len1 equ $-msg1
   msg2 db 10,13,"Entered 5 64 bit numbers = "
   len2 equ $-msg2

section .bss
   array resd 200
   counter resb 1

section .text
   global _start
   _start:

;display
   mov Rax,1
   mov Rdi,1
   mov Rsi,msg1
   mov Rdx,len1
   syscall

;accept
mov byte[counter],05
mov rbx,00
      loop1:
         mov rax,0        ; 0 for read
         mov rdi,0        ; 0 for keyword
         mov rsi, array   ;move pointer to start of array
         add rsi,rbx
         mov rdx,17
         syscall
         add rbx,17       ;to move counter
         dec byte[counter]
         JNZ loop1
```

```
;display
    mov Rax,1
    mov Rdi,1
    mov Rsi,msg2
    mov Rdx,len2
    syscall

;display
mov byte[counter],05
mov rbx,00
      loop2:
         mov rax,1       ;
         mov rdi,1
         mov rsi, array
         add rsi,rbx
         mov rdx,17            ;16 bit +1 for enter
         syscall
         add rbx,17
         dec byte[counter]
         JNZ loop2
;exit system call
      mov rax ,60
      mov rdi,0
      syscall
```

;Output

```
(base) stes@stes:~$ nasm -f elf64 ass2.asm
(base) stes@stes:~$ ld -s -o ass2 ass2.o
(base) stes@stes:~$ ./ass2

Enter 5 64 bit numbers = 12
23
56
89
78

Entered 5 64 bit numbers = 12
23
56
89
78
(base) stes@stes:~$
```