**Title:- Display Accepted Numbers**

**Assignment Name:- Write an X86/64 ALP to accept five 64 bit Hexadecimal numbers from user and store them in an array and display the accepted numbers**

;macro to display messages

%macro print 2

mov rax,1

mov rdi,1

mov rsi,%1

mov rdx,%2

syscall

%endmacro

; macro for array input output

%macro universal 4

mov rax,%1

mov rdi,%2

mov rsi,%3

add rsi,rbx

mov rdx,%4

syscall

%endmacro

section .data

m1 db "Please enter 5 numbers of 64 bit(16 digits)",10

m1l equ $-m1

m2 db "Entered Numbers are :",10

m2l equ $-m2

count db 05

section .bss

array resq 6

section .text

global \_start

\_start:

mov rbx,00

print m1,m1l

;logic to accept 5 numbers

input:

universal 0,0,array,17

; mov rax,00

; mov rdi,00

; mov rsi,array

; add rsi,rbx

; mov rdx,17

; syscall

add rbx,17

dec byte[count]

jnz input

;display logic

print m2,m2l

mov byte[count],05

mov rbx,00

display:

universal 1,1,array,17

; mov rax,01

; mov rdi,01

; mov rsi,array

; add rsi,rbx

; mov rdx,17

; syscall

add rbx,17

dec byte[count]

jnz display

exit:

mov rax,60

mov rdi,00

syscall

; nasm -f elf64 mpl\_printarray.asm;ld -o a mpl\_printarray.o;./a

; 1567812345123678

; 2212345345678678

; 3267812345345678

; 4456781234567812

; 5123456781234567