## **Experiment No. 1**

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section .data msg1 db 10,13, "Enter 5 64 bit numbers",10,13 len1 equ \$-msg1 msg2 db 10,13, "Entered 5 64 bit numbers",10,13 len2 equ \$-msg2 section .bss array resq 5 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], 5 xor rbx, rbx loop1: mov rax, 0 mov rdi, 0 lea rsi, [array + rbx\*8]; multiply index by 8 to access 64-bit numbers mov rdx, 8 syscall add rbx, 1 dec byte [counter] jnz loop1 ; display mov rax, 1 mov rdi, 1 mov rsi, msg2 mov rdx, len2 syscall ; display entered numbers mov byte [counter], 5 xor rbx, rbx

```
loop2:
mov rax, 1
mov rdi, 1
lea rsi, [array + rbx*8]
mov rdx, 8
syscall
add rbx, 1
dec byte [counter]
jnz loop2
; exit system call
mov rax, 60
xor rdi, rdi
syscall
```

## output –

```
Enter 5 64 bit numbers :

54
31
42344
35
34

Entered 5 64 bit numbers : 54
31
42344
35
34
```