Practical – 1

Problem statement: 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.

Program:

```
section .data
mesg1 db "Enter the numbers ",10,13
mesg1len equ $-mesg1
mesg2 db "Display the numbers ",10,13
mesg2len equ $-mesg2
section .bss
num resb 10
section .text
global _start
_start:
mov rax,1;
mov rdi,1;
mov rsi,mesg1
mov rdx,mesg1len
syscall
mov rax,0
mov rdi,0
mov rsi,num
syscall
mov rax,1;
mov rdi,1;
mov rsi,mesg2
```

```
mov rdx,mesg2len
syscall
mov rax,1
mov rdi,1
mov rsi,num
syscall
mov rax,60
mov rdi,0
syscall
```

Output:

```
atharva@atharva :~$ nasm -f elf64 lab1.asm
atharva@atharva :~$ ld -o lab1 lab1.o
atharva@atharva :~$./lab1
Enter the numbers
8 4 2 3
Display the numbers
8 4 2 3
```