## **ML** Assignments 1

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Name: Jagruti Ravindra Patil
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Batch: S4 Comp
                                 Assignment 1:
Code:
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 keyboard
      mov rsi, array
     add rsi,rbx
```

mov rdx,17

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syscall
    add rbx,17
    dec byte[counter]
    JNZ loop1
    mov Rax,1
    mov Rdi,1
    mov Rsi,msg2
    mov Rdx,len2
    syscall
    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
    system call
    mov rax,60
    mov rdi,0
    syscall
```

## **Output:**

```
vulture@vulture-VirtualBox:-/Downloads/nasm-2.16.01$ nasm -f elf64 -g -F stabs add.nasm vulture@vulture-VirtualBox:-/Downloads/nasm-2.16.01$ ld -o add add.o add vulture@vulture-VirtualBox:-/Downloads/nasm-2.16.01$ ./add

Enter 5 64 bit numbers:9865348901234562 3782307865437756 5678934567011245 8896547892213407 6545348901234523

Entered 5 64 bit numbers:9865348901234562 3782307865437756 5678934567011245 8896547892213407 6545348901234523
```