

## LAB # 06

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**SID: 11018**

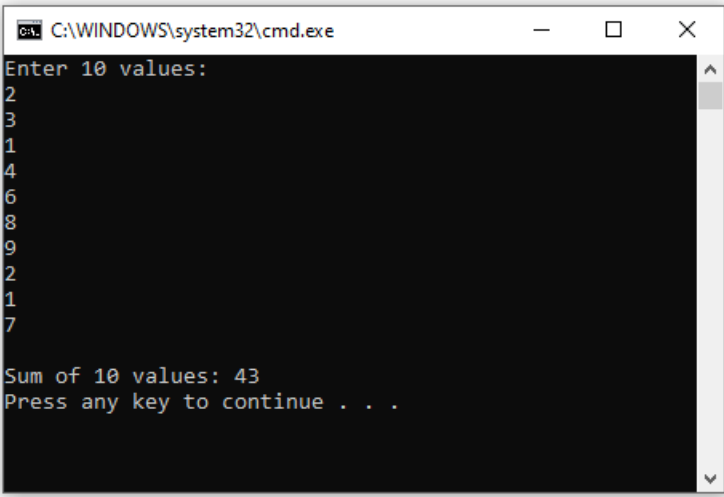
**Q1-**

```
Lab 6.asm  X
include irvine32.inc
;LAB 06 BY MUHAMMAD SULTAN 11018
.data
array1 DWORD 50 DUP(0)
message1 BYTE "Enter 10 values: ",0dh,0ah,0
message2 BYTE "Sum of 10 values: ",0
.code
main proc
    mov edx,offset message1
    call writestring

    mov ecx,0
    .while (ecx < 10)
        call readdec
        mov array1[ecx*4],eax
        inc ecx
    .endw
    call crlf

    mov eax,0
    mov ecx,0
    .while (ecx < 10)
        add eax,array1[ecx*4]
        inc ecx
    .endw
    mov edx,offset message2
    call writestring
    call writedec
    call crlf

    exit
main endp
end main
```

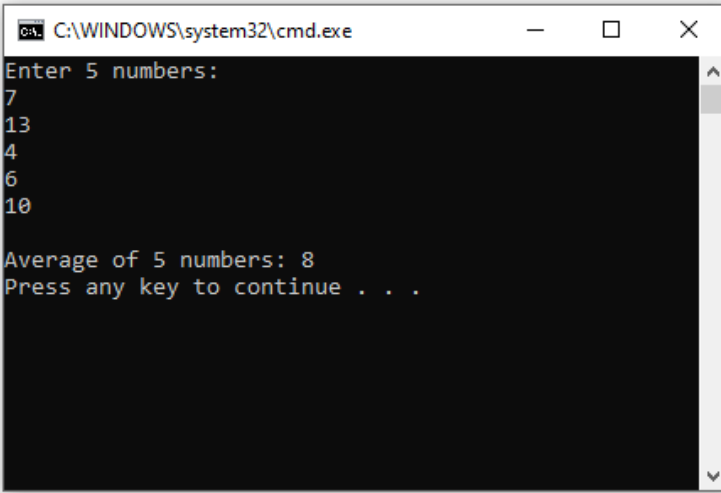


## Q2-

```
Lab 6.asm  X
include irvine32.inc
;LAB 06 BY MUHAMMAD SULTAN 11018
.data
array1 DWORD 50 DUP(0)
message1 BYTE "Enter 5 numbers: ",0dh,0ah,0
message2 BYTE "Average of 5 numbers: ",0
.code
main proc
    mov edx,offset message1
    call writestring

    mov ecx,0
    .while (ecx < 5)
        call readdec
        mov array1[ecx*4],eax
        inc ecx
    .endw
    call crlf

    mov eax,0
    mov ecx,0
    .while (ecx < 5)
        add eax,array1[ecx*4]
        inc ecx
    .endw
    mov edx,offset message2
    call writestring
    mov edx,0
    mov ebx,5
    DIV ebx
    call writedec
    call crlf
exit
main endp
end main
```



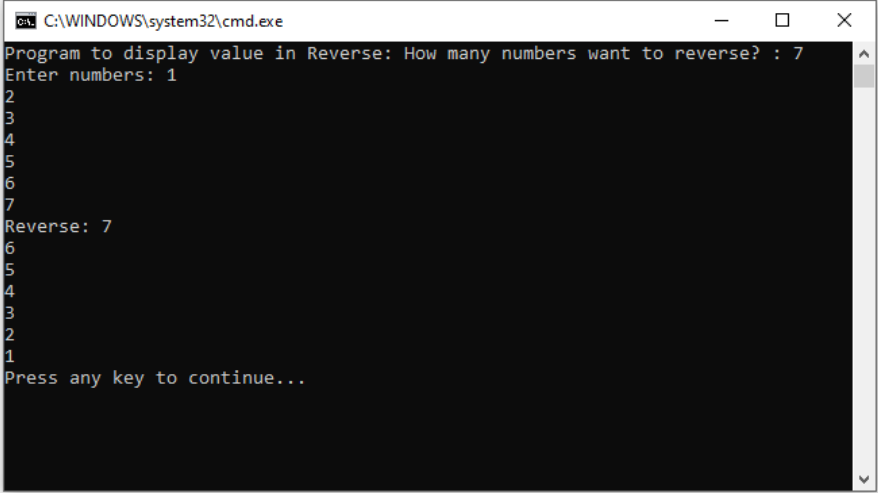
C:\WINDOWS\system32\cmd.exe

Enter 5 numbers:  
7  
13  
4  
6  
10

Average of 5 numbers: 8  
Press any key to continue . . .

## Q3-

```
Lab 6.asm*  X
INCLUDE Irvine32.inc
;Lab 06 By MUHAMMAD SULTAN 11018
.data
array DWORD 50 DUP (0)
msg1 byte "Program to display value in Reverse: ",0
msg2 byte "How many numbers want to reverse? : ",0
msg3 byte "Enter numbers: ",0
msg4 byte "Reverse: ",0
num DWORD ?
.code
main proc
mov edx,offset msg1
call writestring
mov edx,offset msg2
call writestring
call readdec
mov num,edx
mov edx,offset msg3
call writestring
mov ecx,1
    .while (ecx <= num)
        call readdec
        push eax
        mov array[ecx*4],eax
        inc ecx
    .endw
mov edx,offset msg4
call writestring
mov ecx,1
    .while (ecx <= num)
        mov eax,array[ecx*4]
        pop eax
        call writedec
        call crlf
        inc ecx
    .endw
call waitmsg
main endp
end main
```



```
C:\WINDOWS\system32\cmd.exe
Program to display value in Reverse: How many numbers want to reverse? : 7
Enter numbers: 1
2
3
4
5
6
7
Reverse: 7
6
5
4
3
2
1
Press any key to continue...
```