TASK 1

.data

myBytes BYTE 10h,20h,30h,40h myWords WORD 3 DUP(?),2000h myString BYTE "ABCDE"

Part a: -

mov eax,TYPE myBytes → Type 1

mov eax,LENGTHOF myBytes → Length 4

mov eax,SIZEOF myBytes → Size 4

mov eax,TYPE myWords → Type 2

mov eax,LENGTHOF myWords → Length 4

mov eax,SIZEOF myWords → Size 4*2 = 8

eax,SIZEOF myString → String size 5*1 = 5

Part b: -

Mov dx, word ptr (myBytes)

Part c: -

Mov al, Byte ptr [myWord + 1]

Part d: -

Mov eax, doubleWord ptr ∏myBytes

TASK 3

```
; Description:
; Revision date:
INCLUDE Irvine32.inc
.data
myMess2
          BYTE "The Sum is: " , 0
array DWORD 1,2,3,4,5,6,7,8,9,10
ArraySize = ($ - Array) / TYPE array
sample DWORD 50
sum
         DWORD 0
.code
main PROC
   call Clrscr
    mov ecx, arraysize
    xor ebx, ebx
    mov eax, sum
    .WHILE ebx < ecx
```

OUTPUT

```
Microsoft Visual Studio Debug Console

The Sum is: +55

C:\Users\saadg\source\repos\Assembly_Project4\Debug\Assembly and to automatically close the console when debugging stops, le when debugging stops.

Press any key to close this window . . .

-
```

TASK 2

```
INCLUDE Irvine32.inc
NUMS
       BYTE 1,2,3,4,5
sep1 BYTE ", ",0
.code
main PROC
       mov edi, OFFSET NUMS
       mov ecx, LENGTHOF NUMS
       mov ebx, TYPE NUMS
       mov edx, OFFSET sep1
L1:
       mov eax,12345
       add edi, TYPE NUMS
       call WriteDec
       call ReadDec
       call WriteString
       loop L1
       call Crlf
       exit
main ENDP
```

OUTPUT

END main

C:\Users\saadg\source 12345