01)	COAL NO Z	Sonaib Sarosh
	ESP: 00001FF4h	shamsi.
	ESP: 00001FE5.h	
	(esi) : 27h	
	1150 0004h 0000 IFE 0	Ch Oh =4h
02)		
(a)		
	0 0 0 0 0 0 0 0 1 ZF = 0	
	60100100	
	2F = (	

```
. data
· code
   main PROC
   mov esi, offset array1
        ecx, length of array 1
   PUSH FD
   PUSH ecx.
    call posvals
   POP FD
    exit
    main endp
    posvals PROC
        mov edi, offset
        mov eax,
        pop ecx
             cmp eax, [esi]
             JGE Ignore
              mov ebx, [esi]
              mov [edi],
              ADD esi, 4
              ADD. edi, 4
              JMP endd.
              mov ebx, [esi]
              Neg ebx
              . MOV [edi] , ebx
              . ADD. esi, 4.
             . A.D.O. edis 4
```

end : 100p 11

## motox

SIEMENS

```
Q4.
```

```
· data
 N sdword?
 a sdword?
   sdward?
. code
  main PROC
    mov eax, 3
    mov ebx , &
    mor edx, b
    L1:
        cmp N, exx
        JNE con1
         JMP endd
         con1:
              cmp N, ebx
               JGE CONZ
               JMP next
         con 2 :
               cmp N, edx
               JLE endd
          next:
               mov ecx, N
                sub ecx, 2
                mov N, ecx
                JMP outt
         end:
               dec N
         out :
                mov ecx, N
                 cmp ecx, o
                 JG L1
         exit
         main endp.
```

. data

St1 byle "Enter a number", o

. code

main PROC

mov edx, offset st1 call writesting mov eax, o call Read int

cmp al, 1 JE meet 1

cmp al 3 JE meet 1 INE con 2

meets: mov al, 'o' call Writechar Jmp endd

con2

cmp al, 2 JE meet 2

cmp al, 4 JE meet 2 JNE endd

meet 2

mov al, el call while char Imp endo

endd

exit main endp

```
· data
 a dword 100
  b dword 200
  c dword
           0
  i dword
  j dword
· code
 main PROC
     mov ecx, 4
     L1.
         mov eax, a
         add b, eax
         mov al, b
         call writeint.
         Push ecx
         movecx, 4.
             MOV CCX, 4
             dec a
             mov ebx, c
             add ebx, 10
             mor c, ebx
         LOOP L2
         POP ecx alsa
         mov al, a
         call writeint
         mov al, c
         call writeint
   Loop L1
   exit
```

main endp

Q6.)

(7) . dala Str1 byte "Enter a number: ". . code main PROC mov edx, offset str1 call writestring call readint mov ecx , eax push eax 11: Push ecx call writeint dec al LOUP LZ

```
(8). . data
          a byte 111101016
          Str1 byte "even parity", 0
          str2 byte "odd parity", 0
        · code.
          main PROC
           movzx eax, a
        movement ebx, 0; number of 1s.
           mov ecx, 8
           LOOP1:
               rcr al, 1
               Jnc L1
               inc ebx
                L1:
               100p 100p1
             mov eax, ebx
             mov bl, 2
             div bl
             movzx eax, ah
             cmp eax, o
              je evenn
              mor eax, offset str2
              call writesting
              jmp endd.
              evenn:
                  mov edx, offset str1
                  call writestring
              endd:
                  exit
                  main ENDP
```

END main.