Q1\_A\_23k0800 Thursday, October 31, 2024 Q1 (a) 6AX=0000 0000h Initial values: ECX - 0000 000Ph EDX = 0000 ABCOH ESP = 0000 OFFFH add ear,1 eax = 0000 0006h inc dh edx = 0000 Accoh posh eax 00 00 ESP = 0000 OFFBh 00 06 00 0 O OD 00 00 ESP = 0000 OFF7h 00 cmp chio 2f=0 josh ecx OE 00 00 00 00 00 00 00 00 00 ES = 0000 Off3h 00 pop ebx ebx = 0000 000 Dh OE 00 00 0 0 00 00 Rough 00 ESP= 0000 OFF7h 00 0 1100 1101 0011 0010 d ( nol edx: 0000 Ac32h push edx 3 2 0 6 00 00 00 00 00 00 32 00 00 / ESD= 0000 off3h pop ear ear = 0000 Ac 32h 06 00 00 00 00 00 00 ESD= 0000 off7h. 00 Endrey values EAX = 0000 AC324 CBX= 0000 0000h ECX = 0000 0000h EDX 2 0000 AC32h.

Q1_B_23k0800 Thursday, October 31, 2024 4:00 PM			
	Q2 (b)		
	line		
	1 = eip = 00401000		
	eip = 00401023		
		40	
		00 (ESP= 008E FF10h	
	: 76 cm the scope of Clasco		
	: 78 cm the sign of Clasco  8ct  eip=60401028 -> eip	= 0040/005	
	05		
	10		
	00		
	· ·		
	5. eip = 00 40 1014h -> ei	0 = 0040 1029	
		7	
	1 2		
	0	ol esp=008e felon.	
	Uses esi, CKX		
		0040 102B	
	eip - 8890 18291	30 10 10 2	
	[19]		
	40		
	00		
	71		
	0 0		
	05		
	ن و ا و و ا	csp = 008e Fe 08h	
		1 27 20000 7 6 3011	
	From the scope of array som		
	ret		
		0:0 = = 4010101	
	eip= 0040 (03B>	eip= 00401019	
	19		
	40		
	00		
	71		
	A6 00		
	ος · · · · · · · · · · · · · · · · · · ·		
	UO		
	00'		
	auch o		
	push 0 eip = 0040 1019h -> eip =	0040 101E	
	00		
	0.0		
	00	109p = 008e Felon	

```
Include irvine 32. inc
. Later
       list byte "compoter organization and assembly
                    byte?
        topeplace
         msg found byte "Here is optated array",0
         msqNfound by te "character not found", 0
, code
  main PROC
       mou cax, O
       call send chub-
       mos toBeplace, al
       mor exx, lengthof list
       mou esi, offset list
        mor cbx, o.
    find:
          mou al, [esi].
          cmp al, to Replace
          je Pound
           inc esi
          loop seasch
          jmp done
 found:
      mou (esi], '@'
       loop search
      cmp ebx,0
      je provnel
mov edx, offset megnifornel
call weite storry
jmp done danadone
pround:
      mor edx, offset ms ground
      call write string
       mou edx, offset list
      call write steiney.
done danadore:
 exit
 main ENDP
 END mayn.
                    (D2 cb)
 inchide isvine 32, inc
dater
myassay BYTE 100 clop(?)
j dword 100
 · code
       mov esi, 0
       mou esi, j
       mor cer, esi
    L1:
        mou esi, ecx
        dec esi
        mod al. omyassay [esi]
        inc esi
         mou myassay [esi], al.
         loop 21
 exit
 main endp
 end mun
```

Q2\_23k0800

Thursday, October 31, 2024

4:23 PM

```
03)
                       (a)
                 al = 00n
                                                              cf= 0
                                   bl = oon
                                                  c1 = 02h
 MOV CL,2
                al=8ch
                                                              cf= 0
                                  bl = 00n
                                                  c1 = 02h
  MOV AL,8Ch
                al= 8ch
                                                              cf= 0
                                  b1 = C8h
                                                  c1 = 02h
 MOV BL,C8h
                                                              cf= 0
                al = 30 h
 SHL AL,CL
                                  bl = C8h
                                                  c1 = 02h
 SHR BL,CL
                al = 30n
                                                              cf= 0
                                                  c1 = 02h
                                  bl = 32h
  INC CL
                                                              cf= 0
                al = 304
                                                  c1 = 03h
                                  bl = 32h
 SAR BL,CL
                al = 30n
                                                 c1 = 634
                                                              cf= 0
                                  bl = 064
               al = 81h
                                                c1 = 034
                                                            cf= 1
                                 bl = 064
 ROL AL,CL
                                                     034
               al = 8(4
                                                            cf= 0
                                                 c1 =
                                 bl = 06h
 CLC
               al = 8/h
                                                            cf= 0
                                                 c1 = 02h
 DEC CL
                                 bl = 06h
 RCL AL,CL
               al = 05h
                                                            cf= 0
                                 bl = 06h
                                                c1 = 024
 STC
                                 bl = 06h
               al = 05h
                                                            cf= 1
                                                c1 = 02h
               al = 05h
                                 bl = 4/h
                                                            cf= 1
                                                c1 = 024
 RCR BL,CL
               al = son
                                                c1 = 02h
                                                            cf= 0
                                 bl = 41h
 SHRD AL,BL,2
               al = sur
                                                            cf= 1
                                 bl = 05h
                                                c1 = 02h
 SHLD BL,AL,2
include
        ixvine 3 Zinc
dala
                                                 secondo
            dword
                                 0101 1000 0101
time stanp
                           1010
                                      m14/3
            word?
                            nours
 milites
 seconds wood?
 hours word?
-cocle
 man PROC
       mov edx, 0
        mov edx, timestanp
        mos el, dl
       and al, 000111111
        mou seconds, ax.
        mov ax, dx
        shr ax, 5
        and ax, 00111111
           minutes, ax
        mov
        mou al, dh
        and al, 1111 1000
       sho al, 3
       movzx bx, al
        mou novos, bx
 exit
 mens enelp
and mens.
```

Q3 23K0800

Thursday, October 31, 2024

4:51 PM