Name: Muhammd Sherjeel Akhtar

**R**oll **N**o: 20P-0101

Home Work No: 1

**S**ubject: COAL LAB

Submitted To Respected Sir:

Khurram Shahzad

```
★ Get Started

ASSEMBLY
                                 1 [org 0x0100]
≡ ALINK.EXE
≡ ALINK.TXT
                                     outerloop:
                                     mov dx, 0
                                     add cx, 2
                                     mov ax, [num1+cx]
                                     innerloop:

    p6.asm
    p7.asm
    p8.asm

                                     add dx, 2
                                     mov bx, [num1+dx]

    RSX.EXE

■ RSXNT.DLL
                                     cmp dx, 12
                                     jz Label
                                      cmp ax, bx
 TEST.ASM
TEST.OBJ
```

```
[org 0x0100]
 2
    mov cx, -2
 5
    outerloop:
    mov dx, 0
 8
    add cx, 2
10
11
    mov ax, [num1+cx]
12
13
    innerloop:
14
15
    add dx, 2
16
    mov bx, [num1+dx]
17
18
19
    cmp dx, 12
```

```
14
    add dx, 2
15
16
    mov bx, [num1+dx]
17
18
    cmp dx, 12
19
20
    jz Label
21
22
    cmp ax, bx
23
24
    jnc innerloop
25
26
27
    Label:
28
29
    cmp cx, 12
```

```
cmp ax, bx
23
24
    jnc innerloop
25
26
    Label:
27
28
    cmp cx, 12
29
30
    jnz outerloop
31
32
    mov [result], ax
33
34
    num1: dw 2,0,0,1,0,1
35
```

Before start of program:

\

```
B C D E F 0 1 2
01 00 00 00 01 00 A1 05
C3 02 00 3B 87 05 01 73
21 D8 01 C3 BB 07 8B 57
1C C7 46 DC 00 00 BE 5E
46 F2 48 3B 46 F6 7E 08
                                                                                                  3 4 5 6 7 8 9 A

00 00 02 00 00 00 00 00

01 BB 00 00 B9 00 00 81

F6 A3 01 B8 00 4C CD

02 85 D2 75 04 85 C0 74

FC 83 7D 0E 00 74 09 8B
                                                                             DS:0103
DS:0113
DS:0123
           add dx, 2
           mov bx, [num1+dx]
                                                                             DS:0133
DS:0143
          cmp dx, 12
                                                                             1 Step 2ProcStep 3Retrieve 4Help ON 5BRK Menu 6 7 up 8 dn 9 le 16 ri
           jz Label
           cmp ax, bx
           jnc innerloop
           Label:
          cmp cx, 12
       jnz outerloop
 33 mov [result], ax
         num1: dw 2,0,0,1,0,1
After Storing the highest no: Which is 2 in 20P-0101

        B
        C
        D
        E
        F
        O
        1
        Z

        01
        00
        00
        00
        01
        00
        A1
        05

        C3
        02
        00
        3B
        87
        05
        01
        73

        21
        D8
        01
        C3
        8B
        07
        8B
        57

        1C
        C7
        46
        DC
        00
        00
        8E
        5E

        46
        F2
        48
        3B
        46
        F6
        7E
        08

                                                                                                               3 4 5 6 7 8 9 A
02 00 02 00 00 00 00 00
01 BB 00 00 B9 0A 00 81
F6 A3 03 01 BB 00 4C CD
02 B5 D2 75 04 85 C0 74
FC 83 7D 0E 00 74 09 8B
                                                                                         DS:0103
DS:0113
                  add dx, 2
                                                                                                                                                                                                                                     |..;g..s
!‡.|ï.ïW
.||F..Ä^
F≥H;F÷~.
                                                                                         DS:0123
                 mov bx, [num1+dx]
                                                                                         DS:0133
                                                                                         DS:0143
                 cmp dx, 12
                                                                                         1 Step 2ProcStep 3Retrieve 4Help ON 5BRK Menu 6 7 up 8 dn 9 le 16 ri
                  jz Label
                  cmp ax, bx
                  jnc innerloop
                  Label:
```

cmp cx, 12

jnz outerloop

mov [result], ax

num1: dw 2,0,0,1,0,1