

Assignment2

Question 1:

The final result A4

.386

.MODEL flat, stdcall

.STACK 4096

ExitProcess Proto, dwExitCode:DWORD

.DATA

val1 WORD 134h

val2 WORD 139h

val3 WORD 67h

val4 WORD 47h

result WORD ?

.CODE

main PROC

mov AX, val3

add AX, val4

mov BX, val1

sub BX, val2

sub AX, BX

sub AX, (30*4)/8

mov result, AX

INVOKE ExitProcess, 0

main ENDP

END main

Question 2 :

The final result should be 00000002

.386

.MODEL flat, stdcall

.STACK 4096

ExitProcess Proto, dwExitCode:DWORD

.DATA

val1 word 12

val2 dword 9

val3 byte 2

val4 byte 20

.CODE

main PROC

movsx EAX, val1

movsx EBX, val3

sub EBX, EAX

neg EBX

movsx EAX, val4

neg EAX

add EAX, val2

add EBX, EAX

```
add EBX, 3
mov ECX, EBX
INVOKE ExitProcess, 0
main ENDP
END main
```

Question 3

The result of z is : 1d , 28 , 54 .

.386

.MODEL flat, stdcall

.STACK 4096

ExitProcess Proto, dwExitCode:DWORD

.DATA

z DWORD 3 DUP(?)

x WORD 10

y WORD 15

r WORD 4

.CODE

main PROC

movsx Eax, x

movsx Ebx, y

movsx Ecx,r

;add eax, 130

add eax, ebx

add eax, ecx

mov [z+0], eax

sub ebx, ecx

add ebx, [z+0]

mov [z+4], ebx

movsx Ebx, y

add ebx, [z+0]

add ebx, [z+4]

mov [z+8], ebx

INVOKE ExitProcess, 0

main ENDP

END main