**COAL LAB 2**

**K17-3922 Section E**

**Q1:**

TITLE Coal (lab3.asm)

INCLUDE Irvine32.inc

.data

val1 SBYTE ?

val2 SBYTE -10

.code

main PROC

mov eax,0

mov al,val2

mov val1,al

call WriteDec

call DumpRegs

exit

main ENDP

END main

**Q2:**

TITLE Coal (lab3.asm)

INCLUDE Irvine32.inc

.data

val1 WORD ?

.code

main PROC

mov val1,bx

call WriteDec

call DumpRegs

exit

main ENDP

END main

**Q3:**

TITLE Coal (lab3.asm)

INCLUDE Irvine32.inc

.data

val1 DWORD -214748364

.code

main PROC

call WriteDec

call DumpRegs

exit

main ENDP

END main

**Q4:**

TITLE Coal (lab3.asm)

INCLUDE Irvine32.inc

.data

wArray WORD 3dup(5)

.code

main PROC

call WriteDec

call DumpRegs

exit

main ENDP

END main

**Q5:**

TITLE Coal (lab3.asm)

INCLUDE Irvine32.inc

.data

string BYTE "Blue", 0

.code

main PROC

call WriteDec

call DumpRegs

exit

main ENDP

END main

**Q6:**

INCLUDE Irvine32.inc

.data

A Word 12

B Word 2

S Word 13

D Word 8

E Word 14

val DW ?

.code

main PROC

mov ax,A

mov bx,B

mul bx

mov cx,S

mov dx,D

mul dx

add ax,cx

sub ax,E

mov val,ax

call DumpRegs

exit

main ENDP

END main