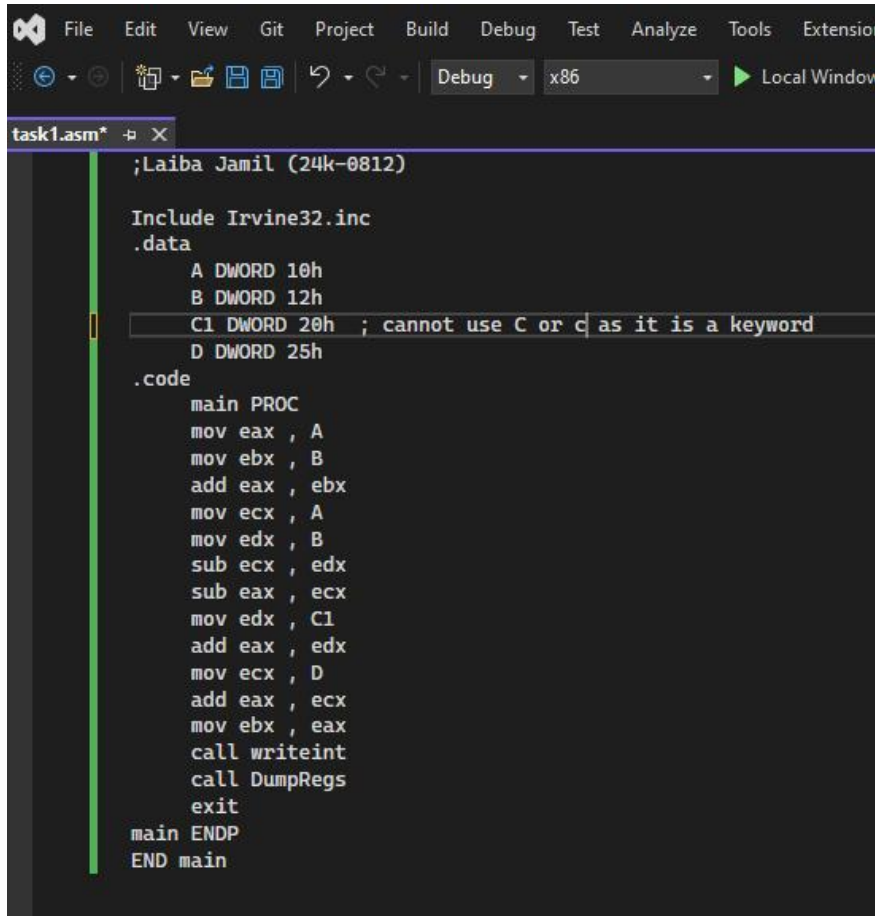


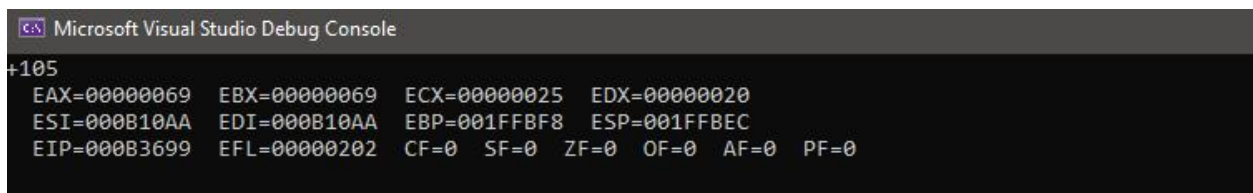
COAL HOME TASK 3A:

Question 1:



```
;Laiba Jamil (24k-0812)

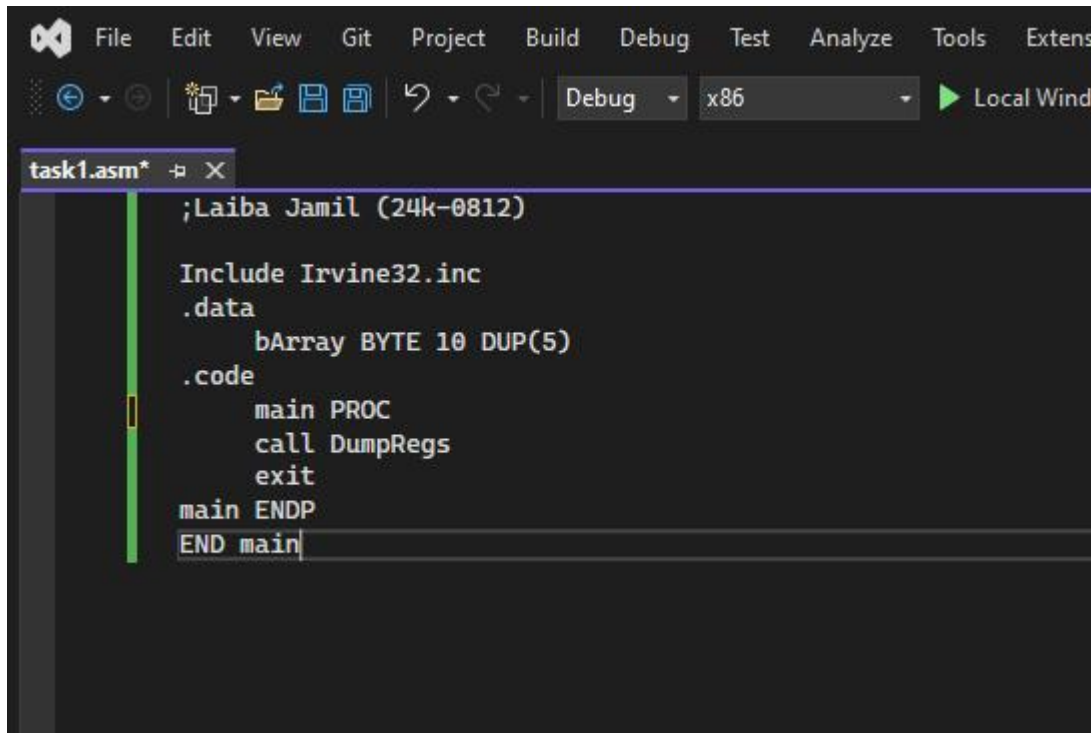
Include Irvine32.inc
.data
    A DWORD 10h
    B DWORD 12h
    C1 DWORD 20h ; cannot use C or c as it is a keyword
    D DWORD 25h
.code
main PROC
    mov eax, A
    mov ebx, B
    add eax, ebx
    mov ecx, A
    mov edx, B
    sub ecx, edx
    sub eax, ecx
    mov edx, C1
    add eax, edx
    mov ecx, D
    add eax, ecx
    mov ebx, eax
    call writeint
    call DumpRegs
    exit
main ENDP
END main
```



```
Microsoft Visual Studio Debug Console

+105
EAX=00000069  EBX=00000069  ECX=00000025  EDX=00000020
ESI=000B10AA  EDI=000B10AA  EBP=001FFBF8  ESP=001FFBEC
EIP=000B3699  EFL=00000202  CF=0  SF=0  ZF=0  OF=0  AF=0  PF=0
```

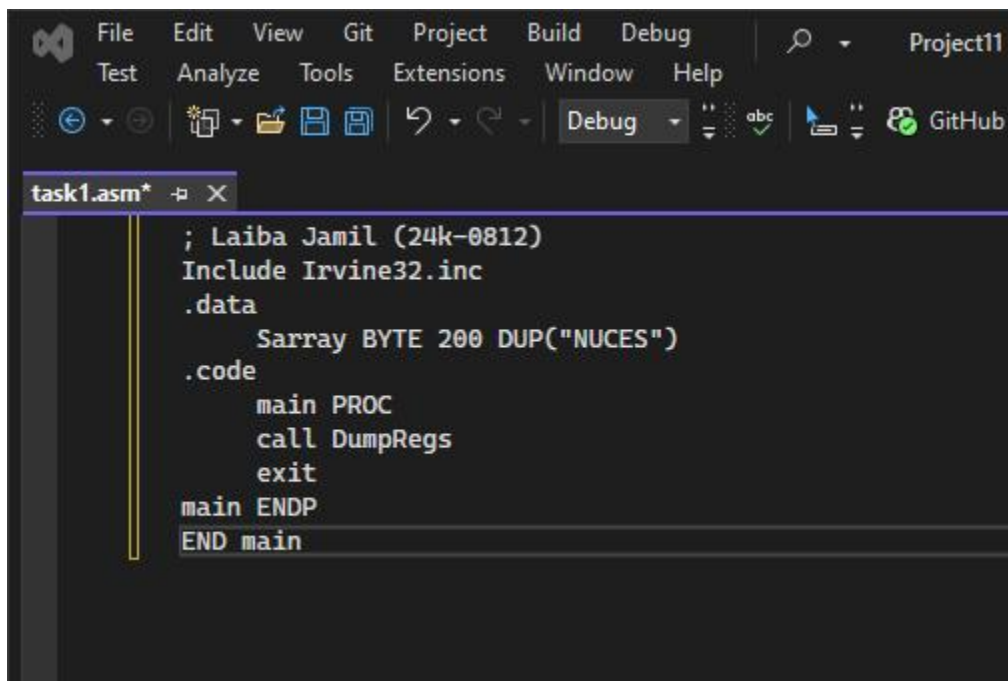
Question 2:



```
task1.asm*
;Laiba Jamil (24k-0812)

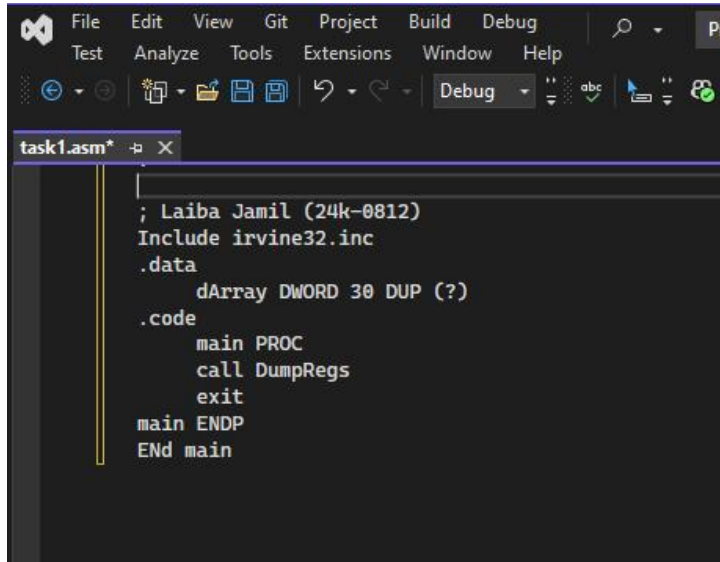
Include Irvine32.inc
.data
    bArray BYTE 10 DUP(5)
.code
    main PROC
        call DumpRegs
        exit
    main ENDP
END main
```

Question 3:



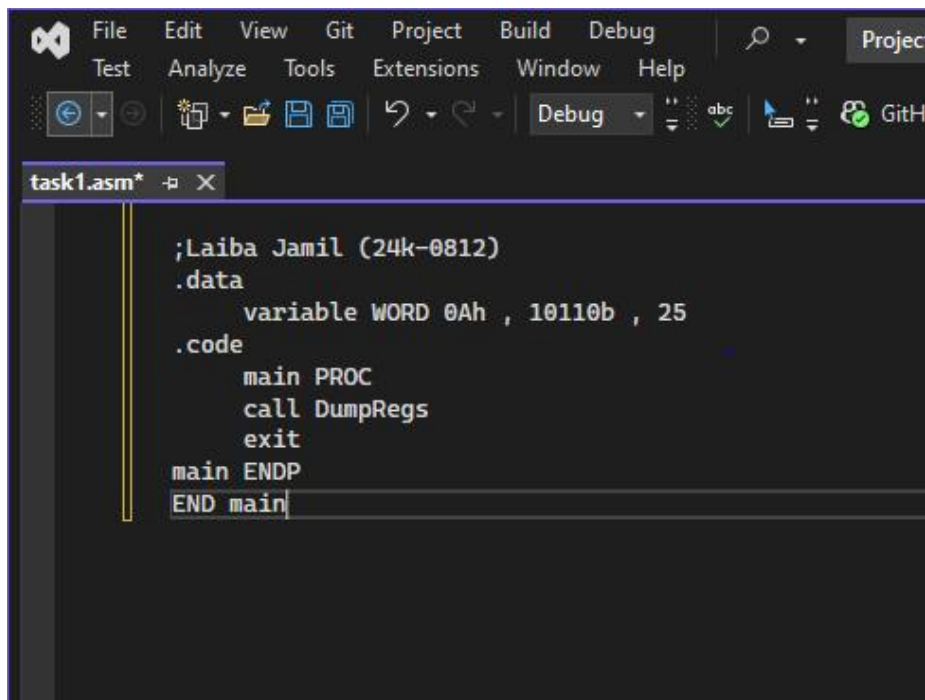
```
task1.asm*
; Laiba Jamil (24k-0812)
Include Irvine32.inc
.data
    Sarray BYTE 200 DUP("NUCES")
.code
    main PROC
        call DumpRegs
        exit
    main ENDP
END main
```

Question 4:



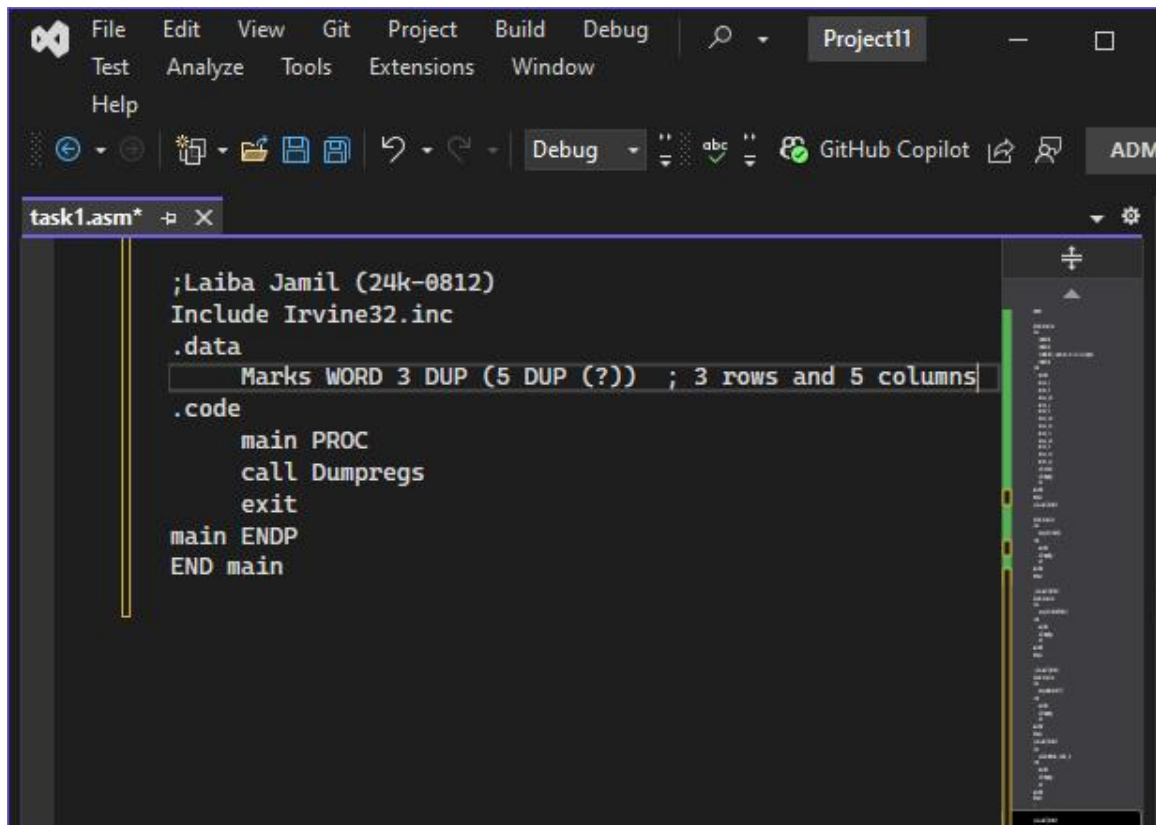
```
task1.asm* X
; Laiba Jamil (24k-0812)
Include irvine32.inc
.data
    dArray DWORD 30 DUP (?)
.code
    main PROC
        call DumpRegs
        exit
    main ENDP
END main
```

Question 5:



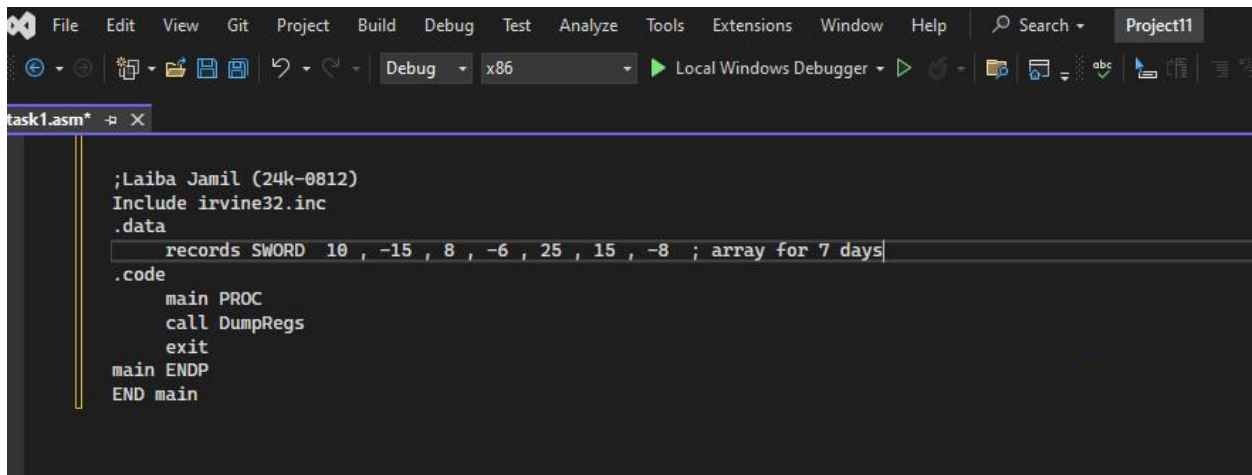
```
task1.asm* X
;Laiba Jamil (24k-0812)
.data
    variable WORD 0Ah , 10110b , 25
.code
    main PROC
        call DumpRegs
        exit
    main ENDP
END main
```

Question 6:



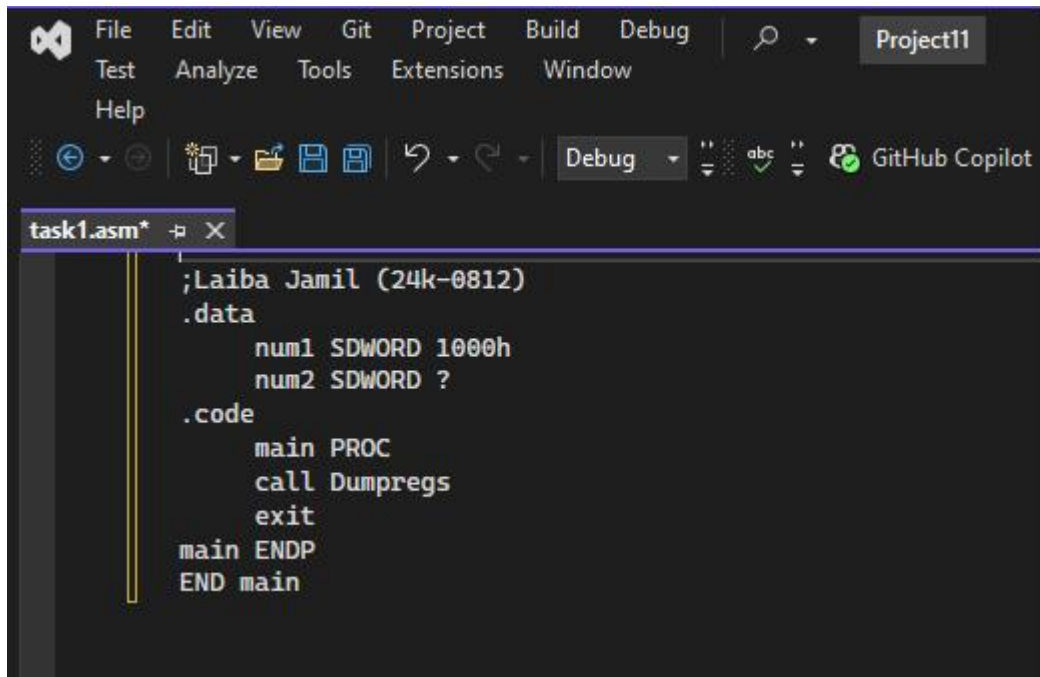
```
;Laiba Jamil (24k-0812)
Include Irvine32.inc
.data
    Marks WORD 3 DUP (5 DUP (?)) ; 3 rows and 5 columns
.code
    main PROC
        call Dumpregs
        exit
    main ENDP
END main
```

Question 7:



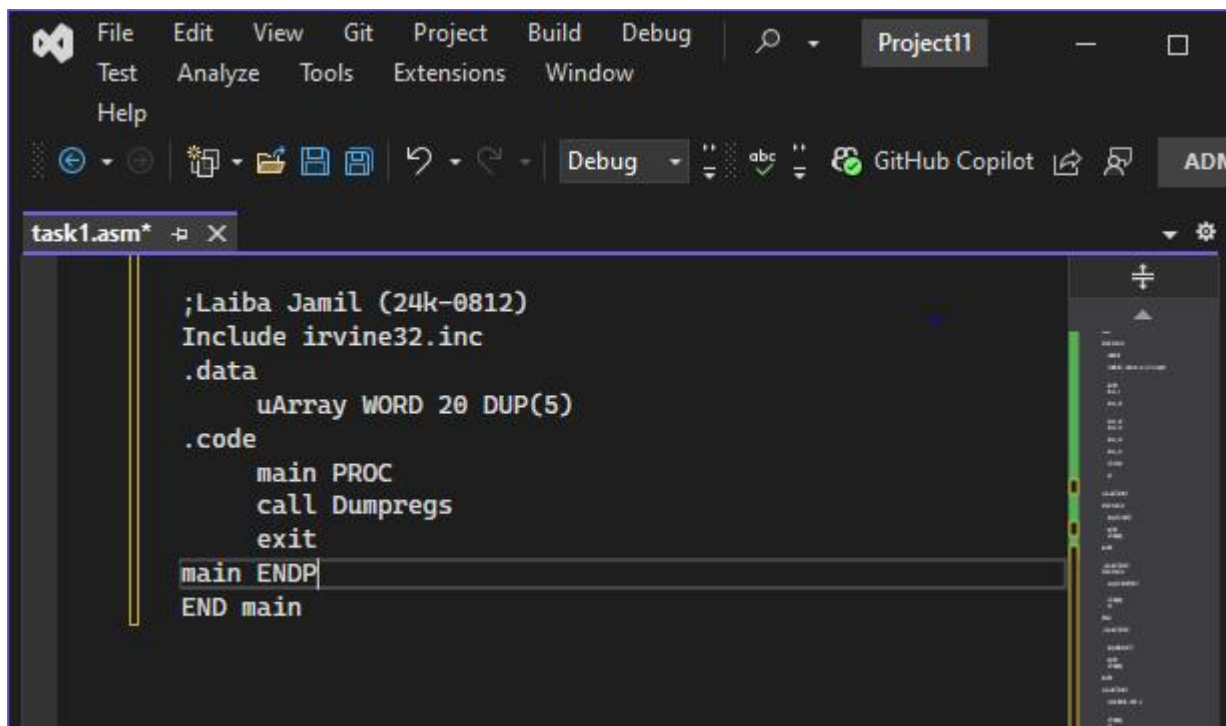
```
;Laiba Jamil (24k-0812)
Include Irvine32.inc
.data
    records SWORD 10, -15, 8, -6, 25, 15, -8 ; array for 7 days
.code
    main PROC
        call DumpRegs
        exit
    main ENDP
END main
```

Question 8:



```
task1.asm*
;Laiba Jamil (24k-0812)
.data
    num1 SDWORD 1000h
    num2 SDWORD ?
.code
    main PROC
        call Dumpregs
        exit
    main ENDP
END main
```

Question 9:



```
task1.asm*
;Laiba Jamil (24k-0812)
Include irvine32.inc
.data
    uArray WORD 20 DUP(5)
.code
    main PROC
        call Dumpregs
        exit
    main ENDP
END main
```

Question 10:

```
;Laiba Jamil (24-0812)
Include irvine32.inc
.data
    msg BYTE ?
    var BYTE "COMPUTER ORGANIZATION AND ASSEMBLY LANGUAGE",0
.code
    main PROC
        call Dumpregs
        exit
    main ENDP
END main
```