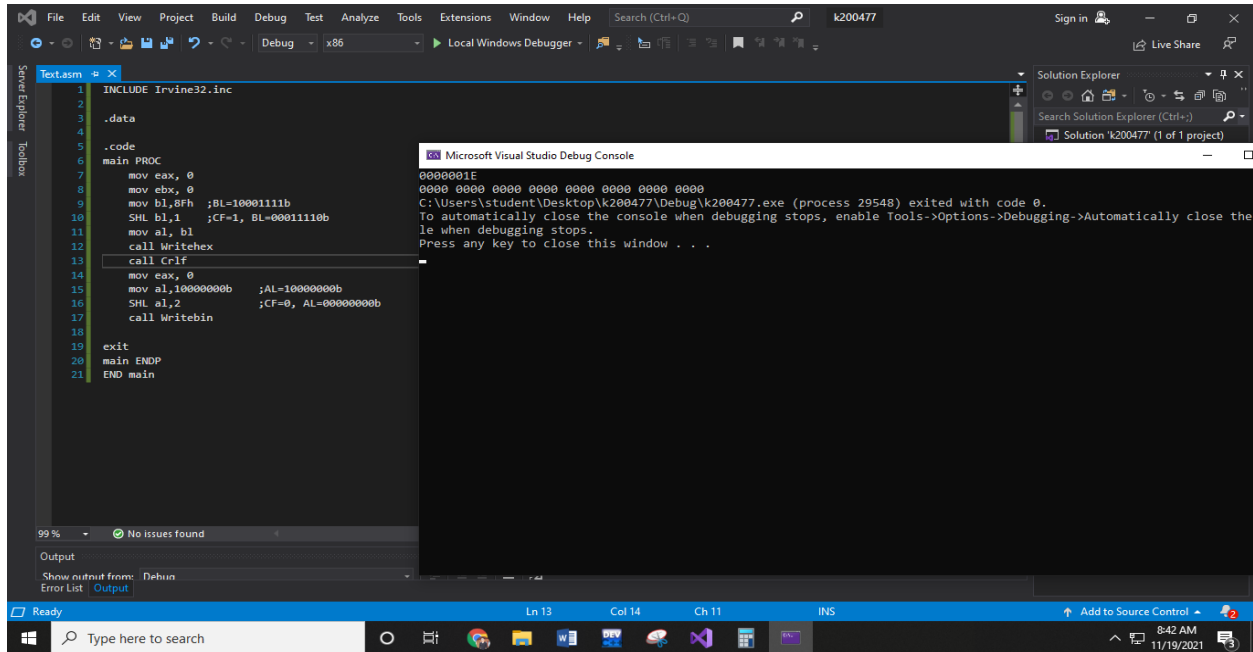


COAL LAB TASK 09

MOHAMMAD BASIL ALI KHAN

20K-0477

Example:



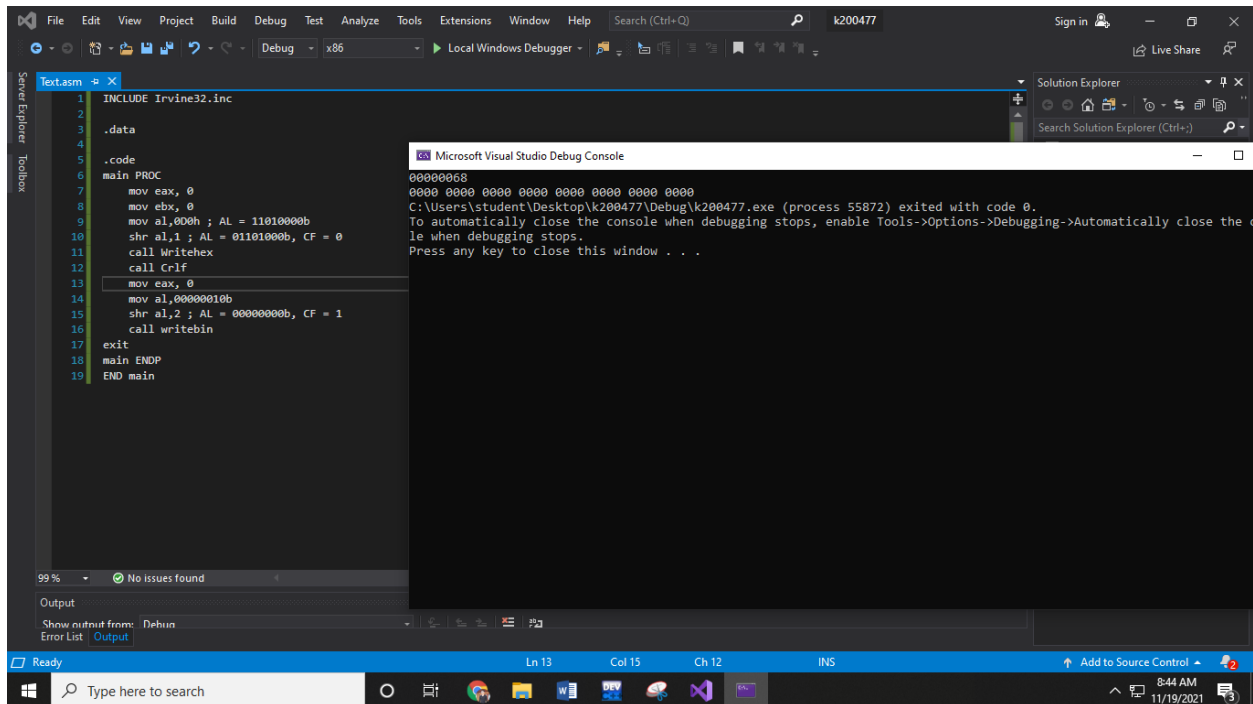
The screenshot shows the Visual Studio IDE with the following components:

- Text.asm:**

```
1 INCLUDE Irvine32.inc
2
3 .data
4
5 .code
6 main PROC
7     mov eax, 0
8     mov ebx, 0
9     mov bl, 8Fh ;BL=10001111b
10    shl bl, 1 ;CF=1, BL=00011110b
11    mov al, bl
12    call Writehex
13    call Crlf
14    mov eax, 0
15    mov al, 10000000b ;AL=10000000b
16    shl al, 2 ;CF=0, AL=00000000b
17    call Writebin
18
19 exit
20 main ENDP
21 END main
```
- Microsoft Visual Studio Debug Console:**

```
0000001E
0000 0000 0000 0000 0000 0000 0000 0000
C:\Users\student\Desktop\k200477\Debug\k200477.exe (process 29548) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the
le when debugging stops.
Press any key to close this window . . .
```
- Output Window:** Shows "No issues found".
- Status Bar:** Displays "Ready", "Ln 13", "Col 14", "Ch 11", and "INS".

Example:



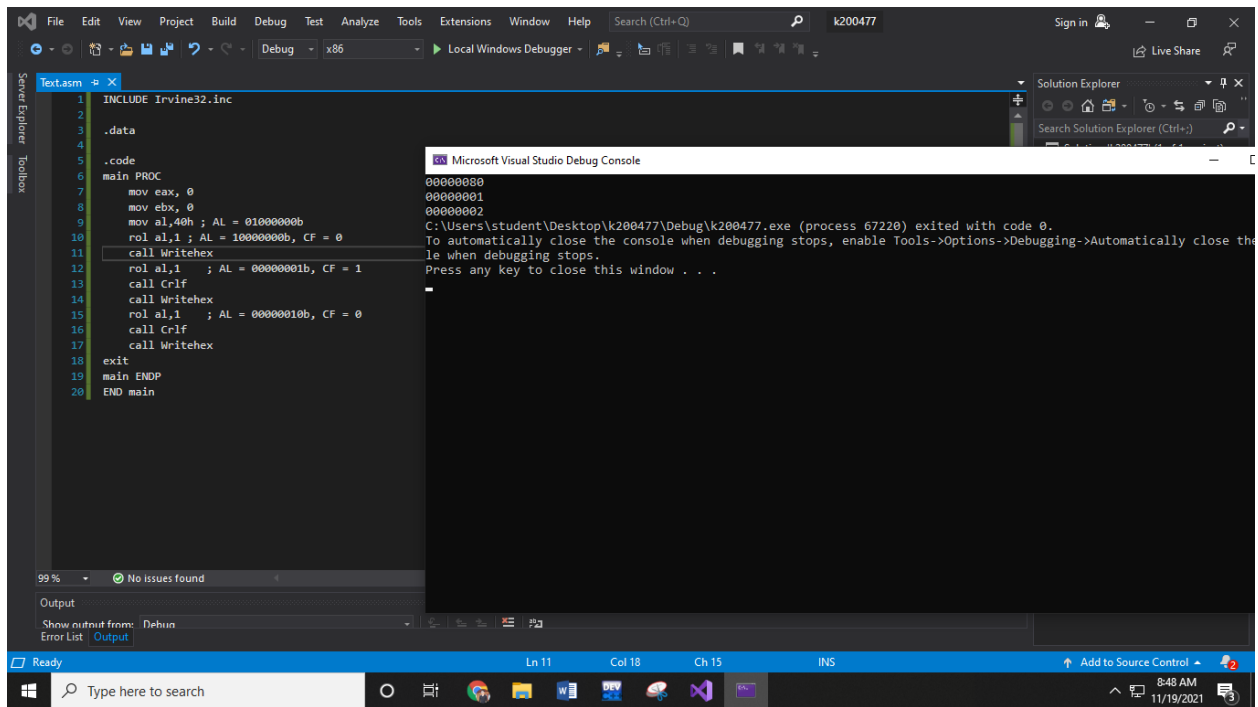
The screenshot shows the Visual Studio IDE with the following components:

- Text.asm:**

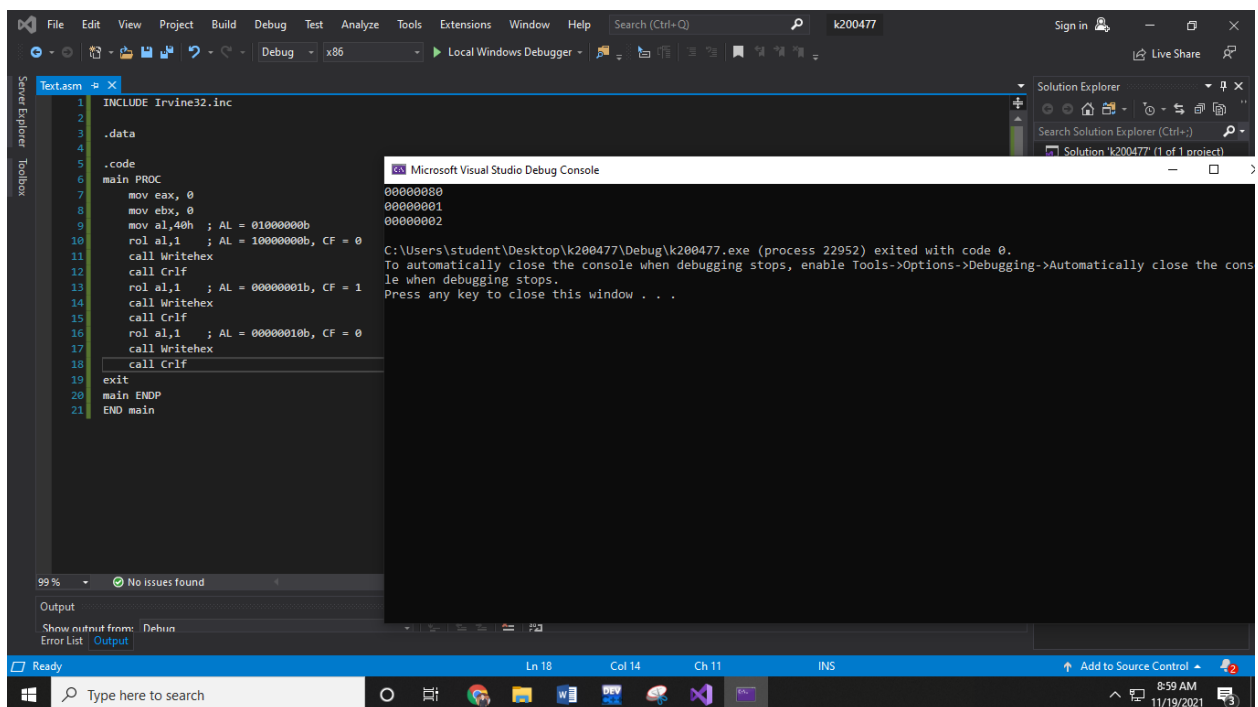
```
1 INCLUDE Irvine32.inc
2
3 .data
4
5 .code
6 main PROC
7     mov eax, 0
8     mov ebx, 0
9     mov al, 000h ; AL = 11010000b
10    shr al, 1 ; AL = 01101000b, CF = 0
11    call Writehex
12    call Crlf
13    mov eax, 0
14    mov al, 00000010b
15    shr al, 2 ; AL = 00000000b, CF = 1
16    call writebin
17
18 exit
19 main ENDP
20 END main
```
- Microsoft Visual Studio Debug Console:**

```
00000068
0000 0000 0000 0000 0000 0000 0000 0000
C:\Users\student\Desktop\k200477\Debug\k200477.exe (process 55872) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the c
le when debugging stops.
Press any key to close this window . . .
```
- Output Window:** Shows "No issues found".
- Status Bar:** Displays "Ready", "Ln 13", "Col 15", "Ch 12", and "INS".

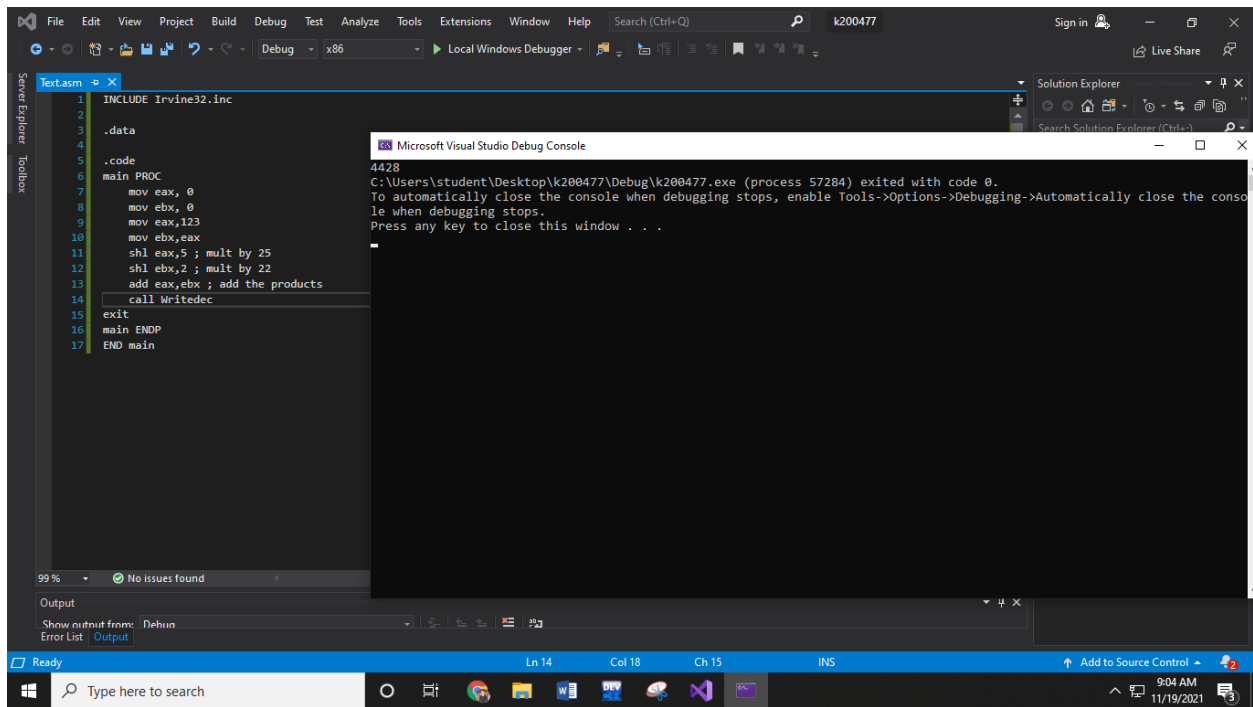
Example:



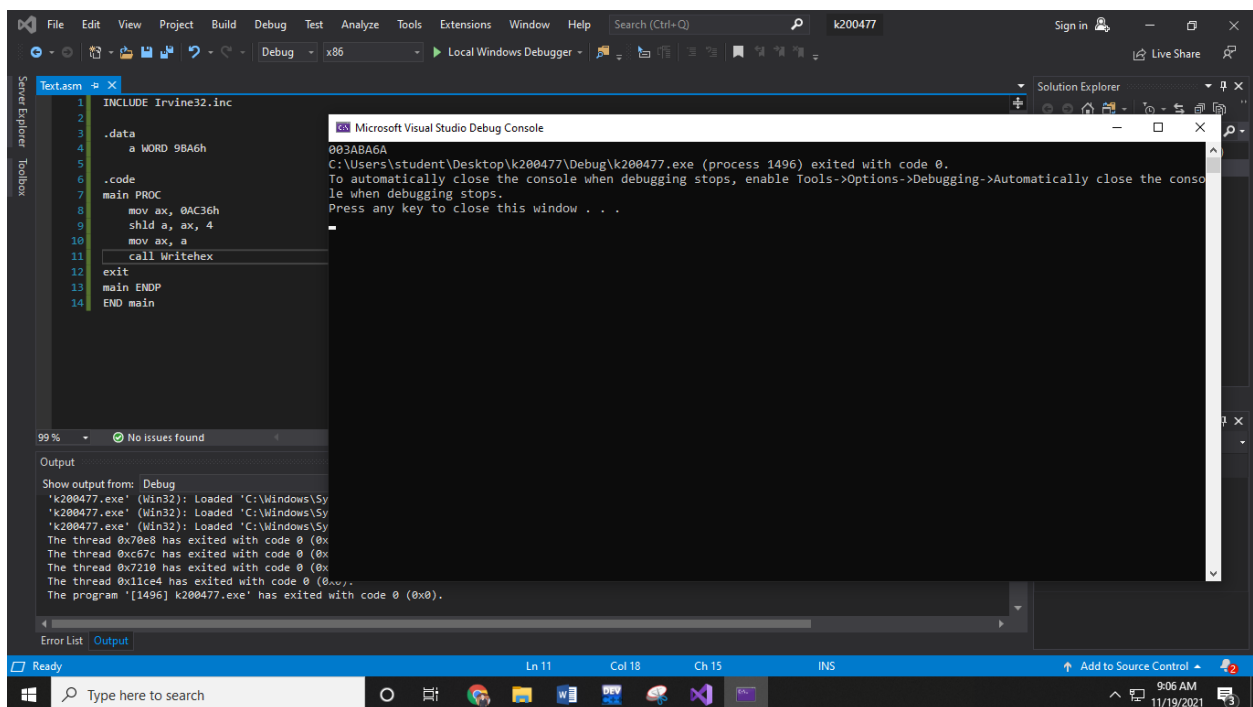
Example:



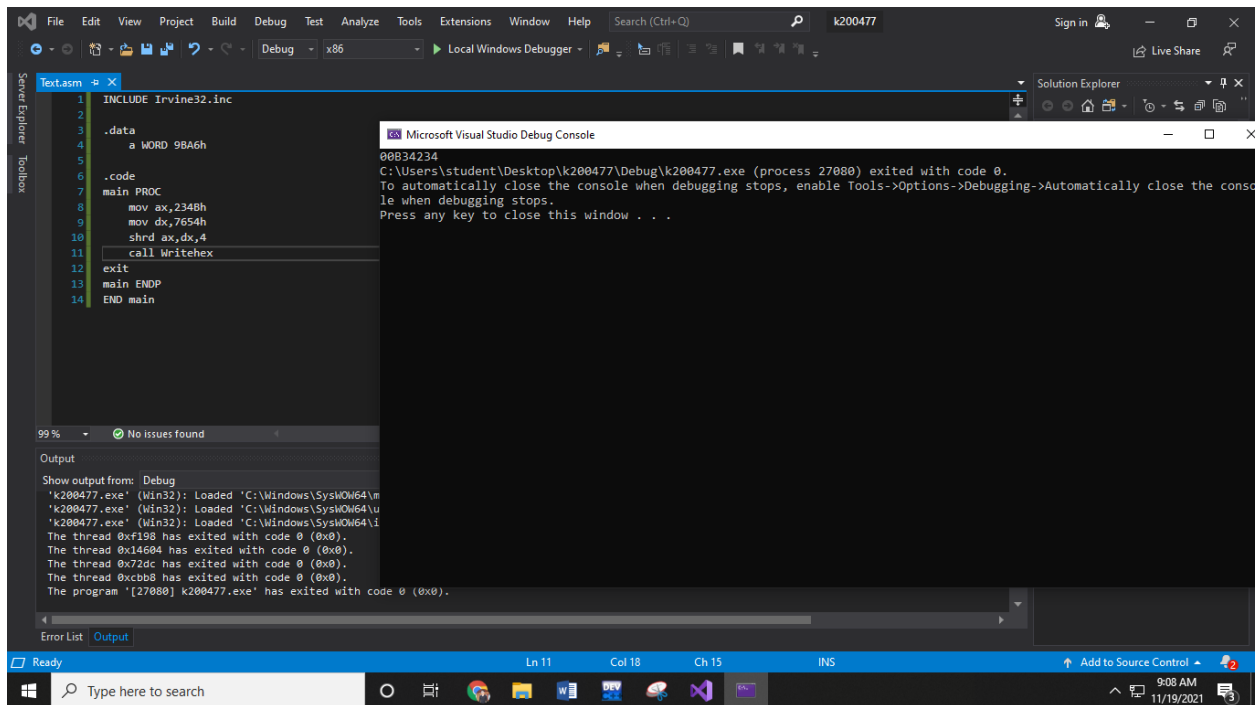
Example:



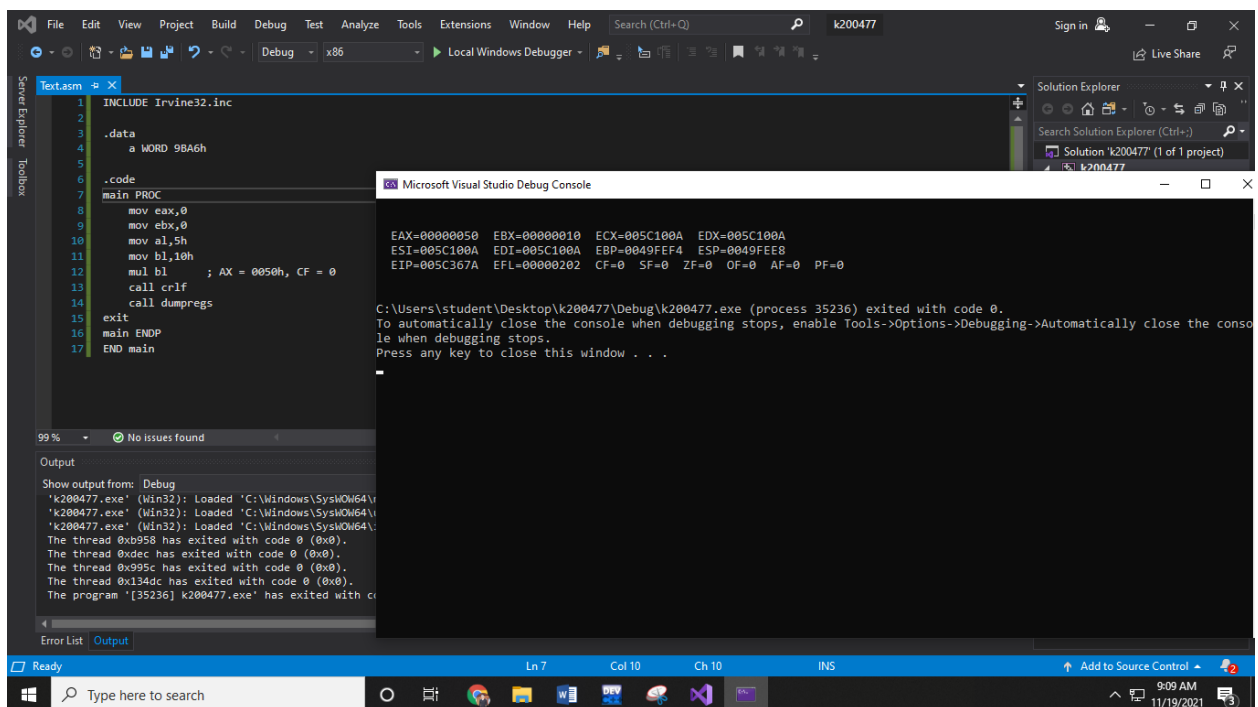
Example:



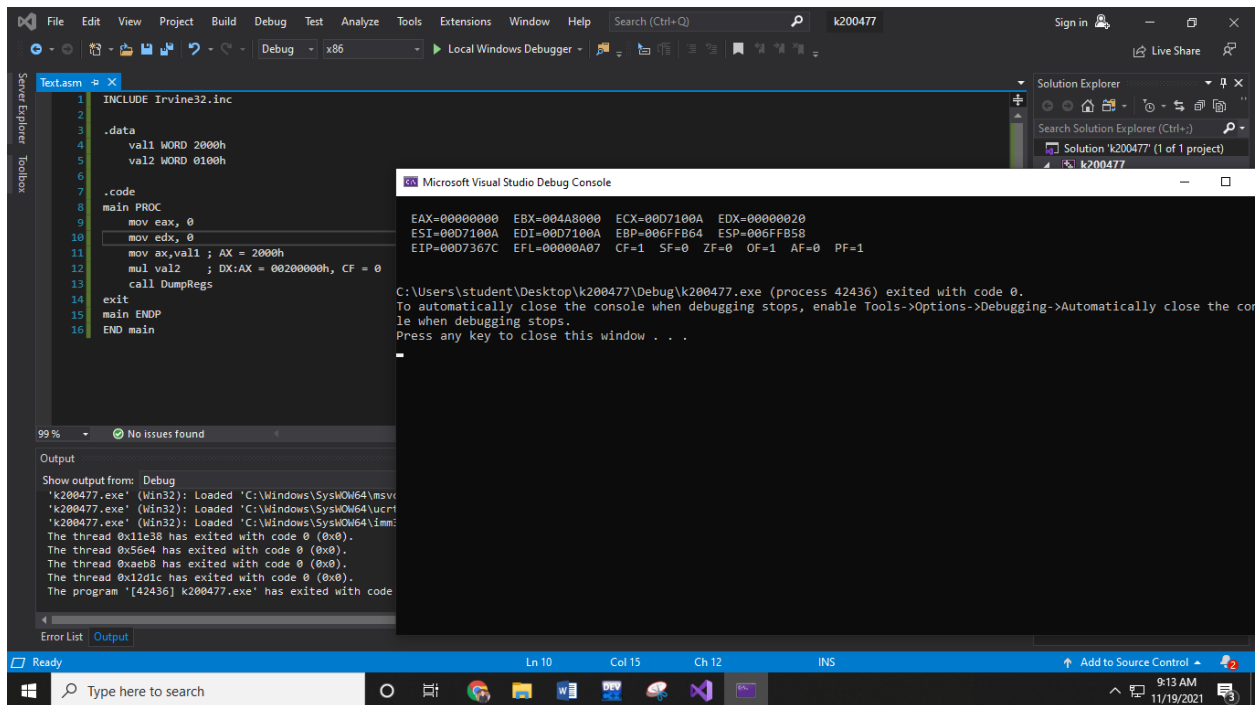
Example:



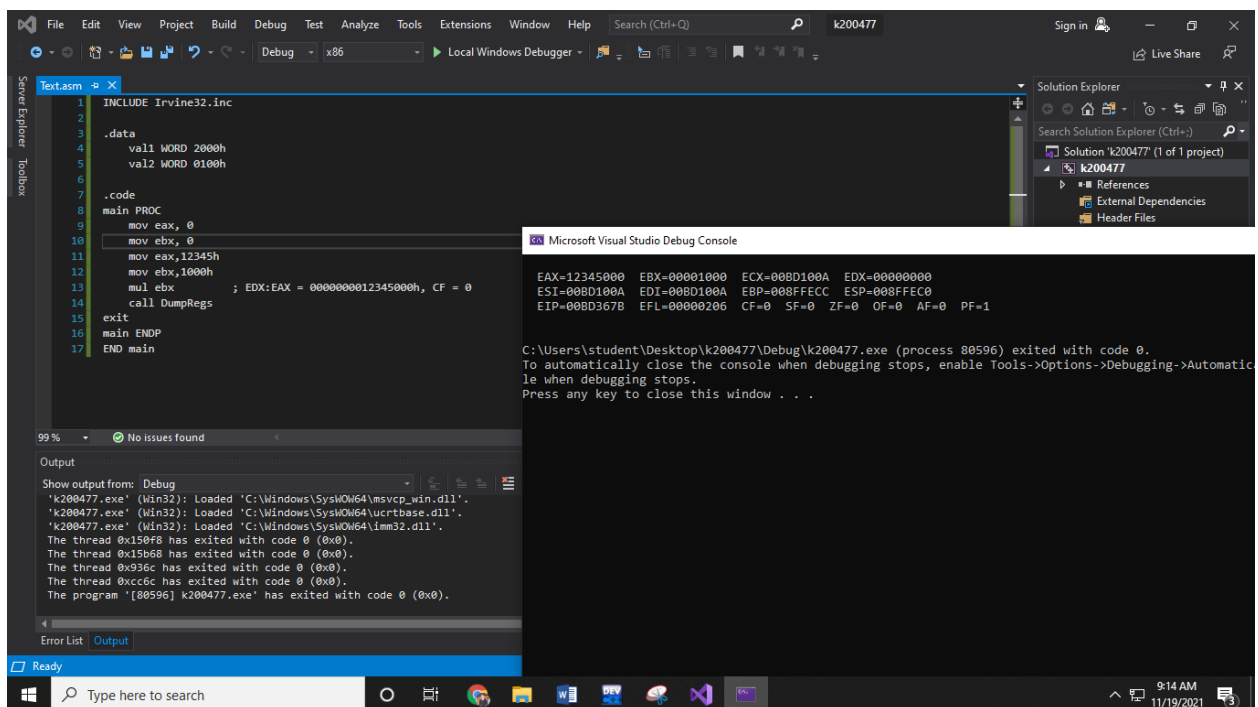
Example#01:



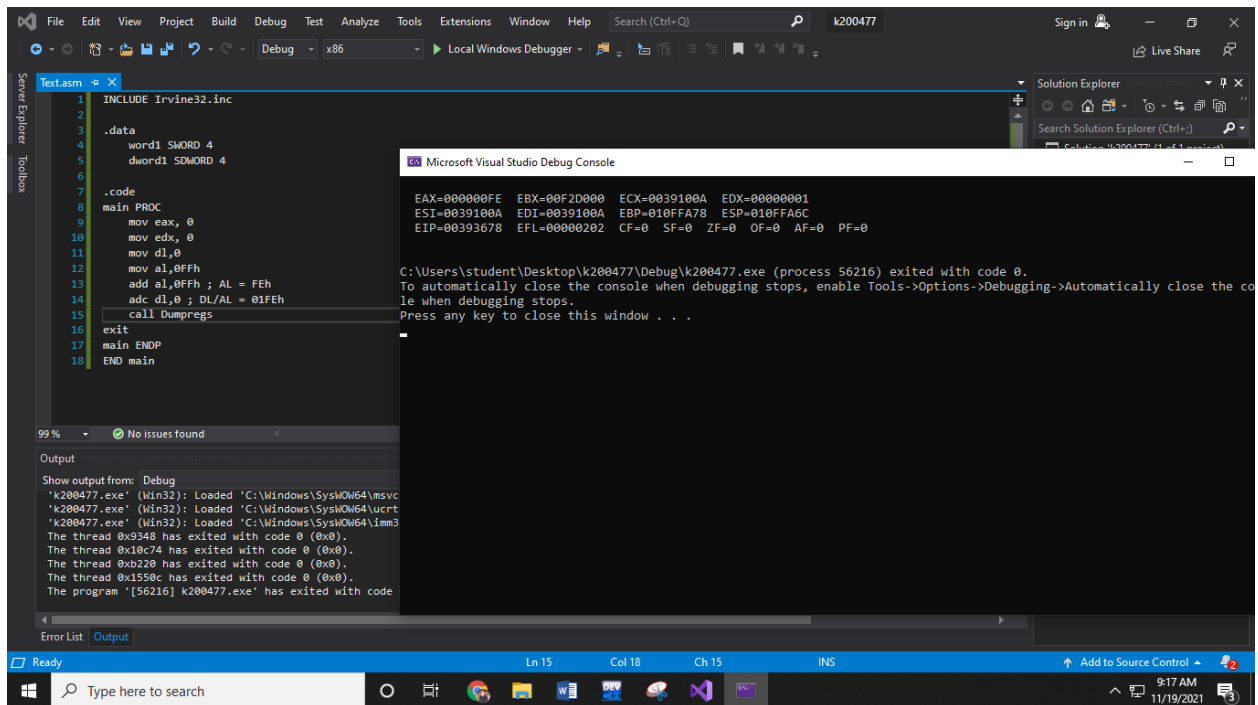
Example#02:



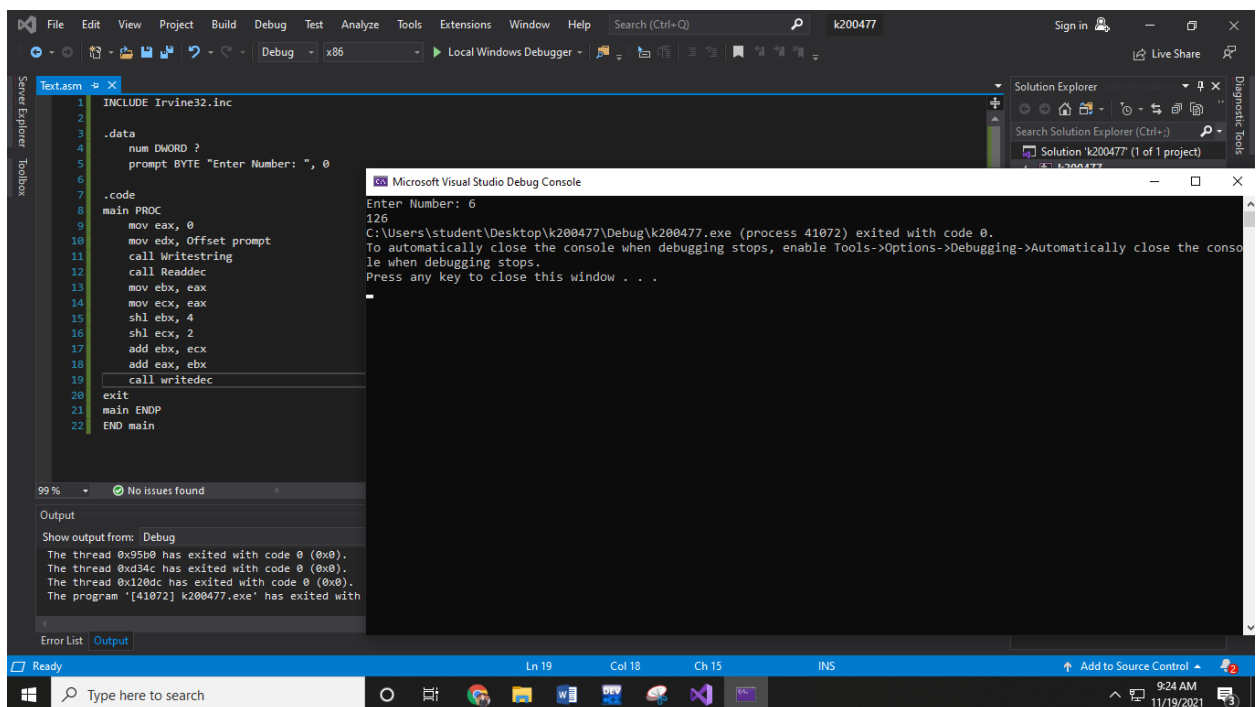
Example#03:



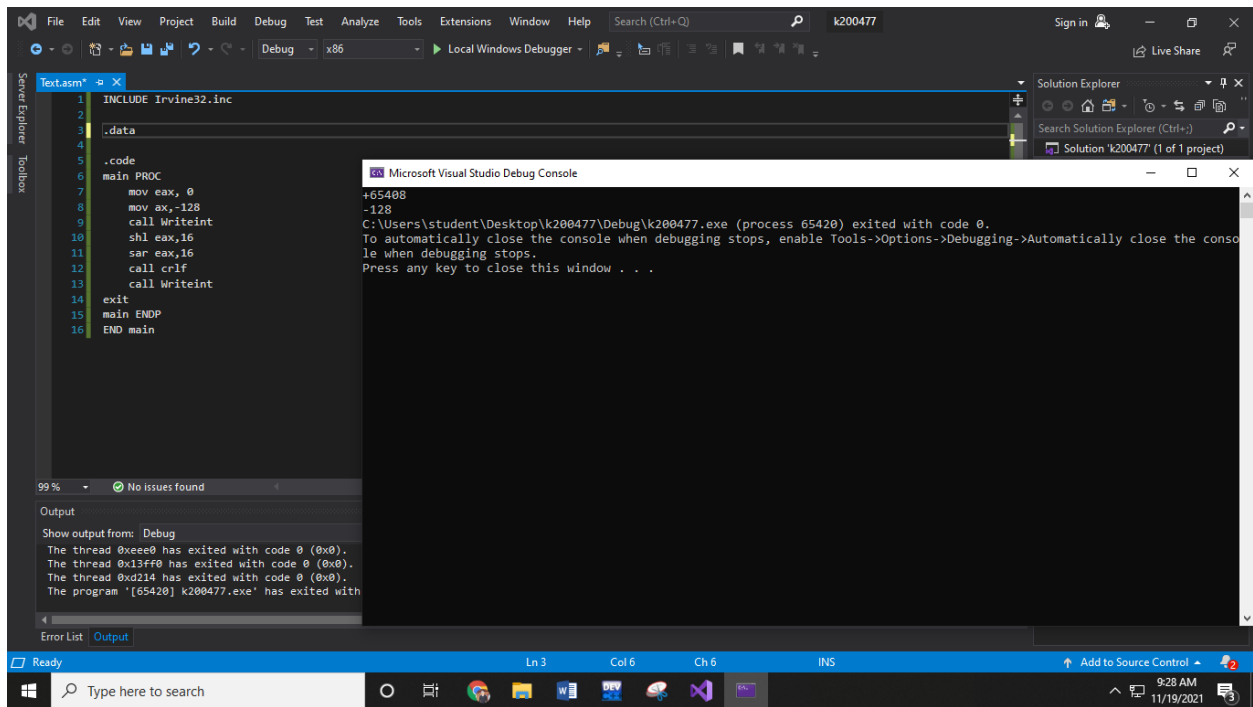
Example#01:



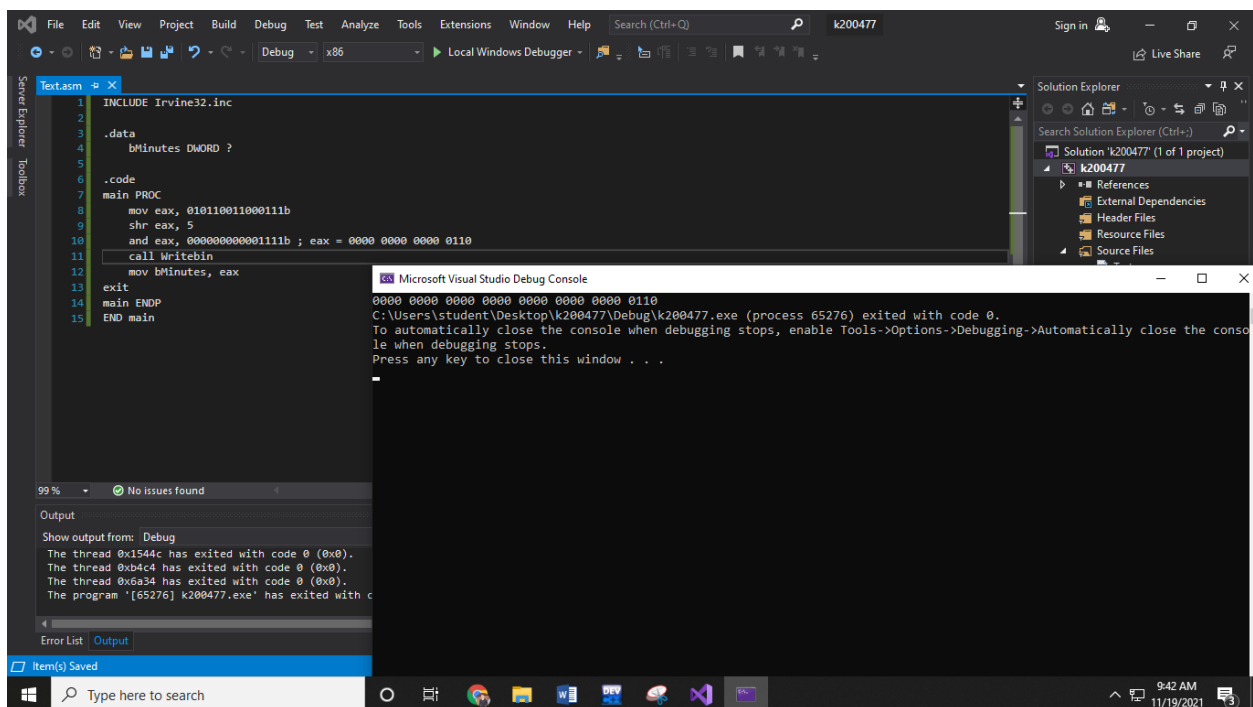
Task#01:



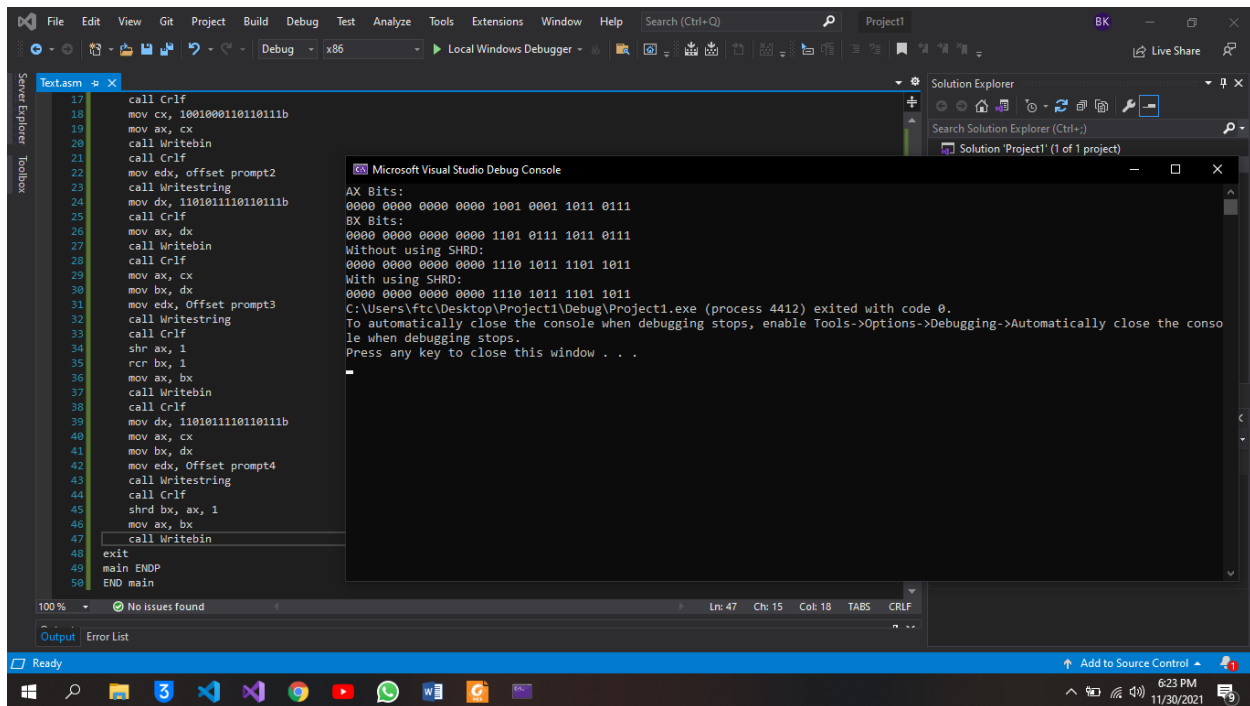
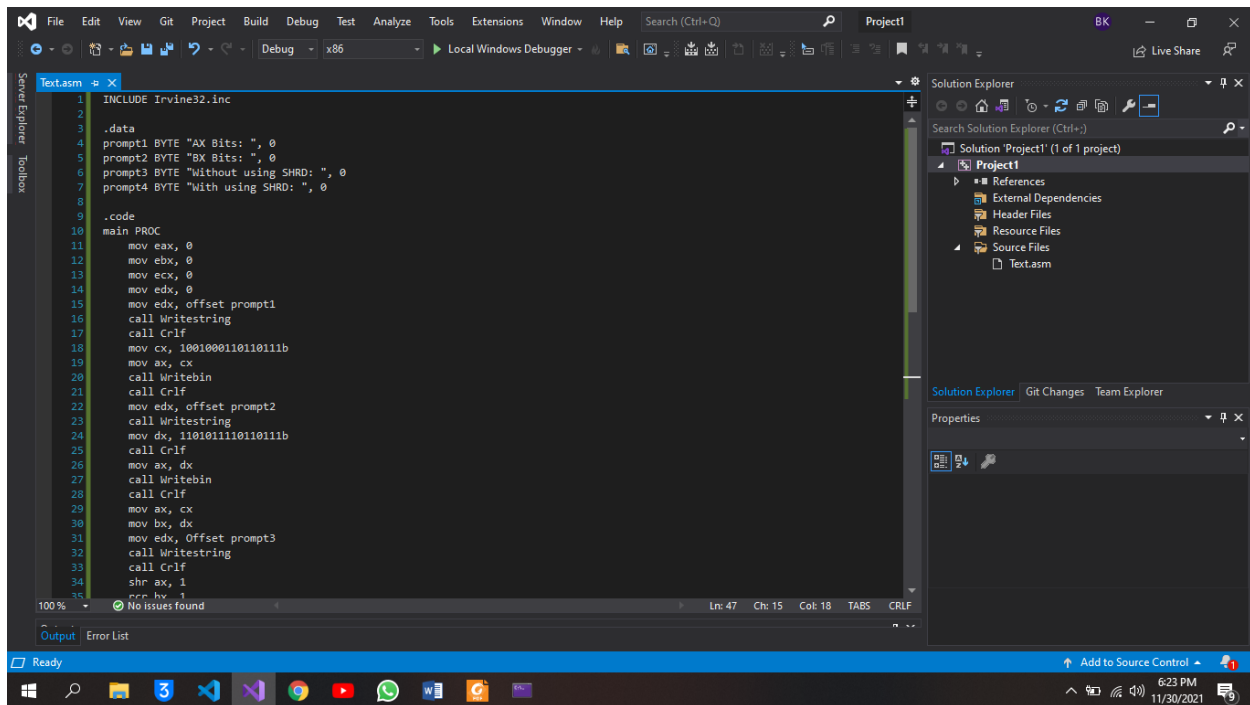
Task#02:



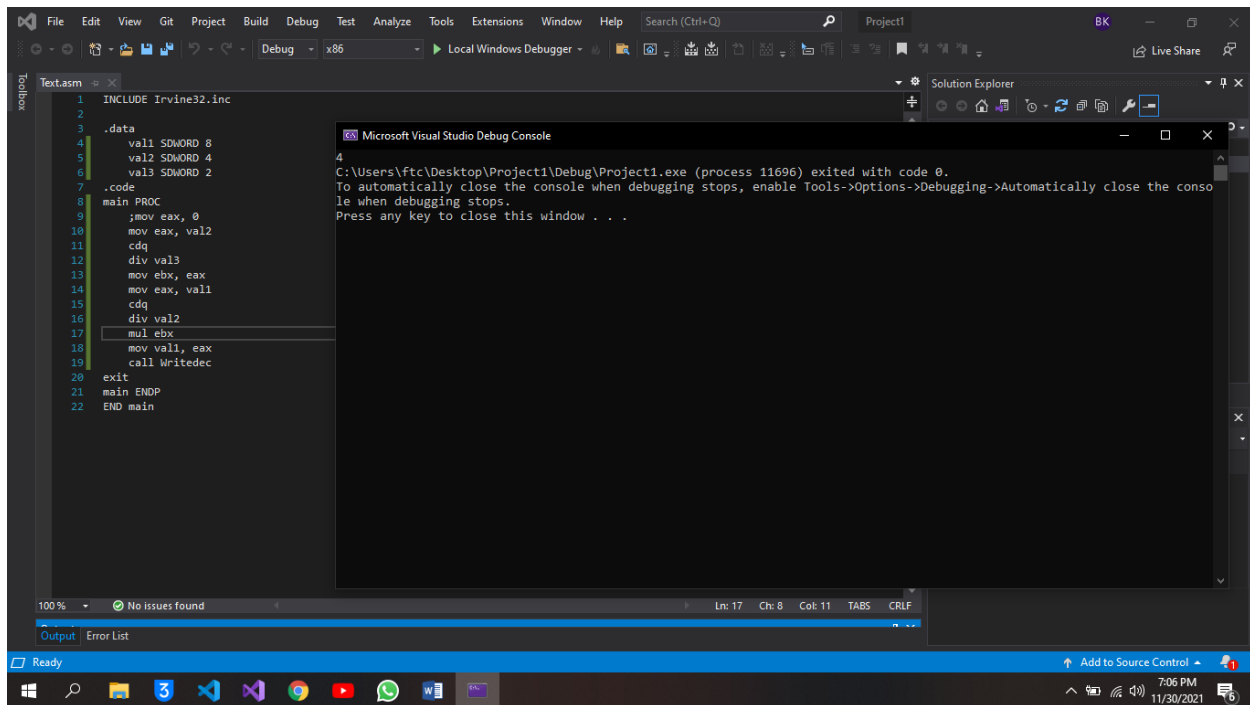
Task#03:



Task#04:



Task#05:



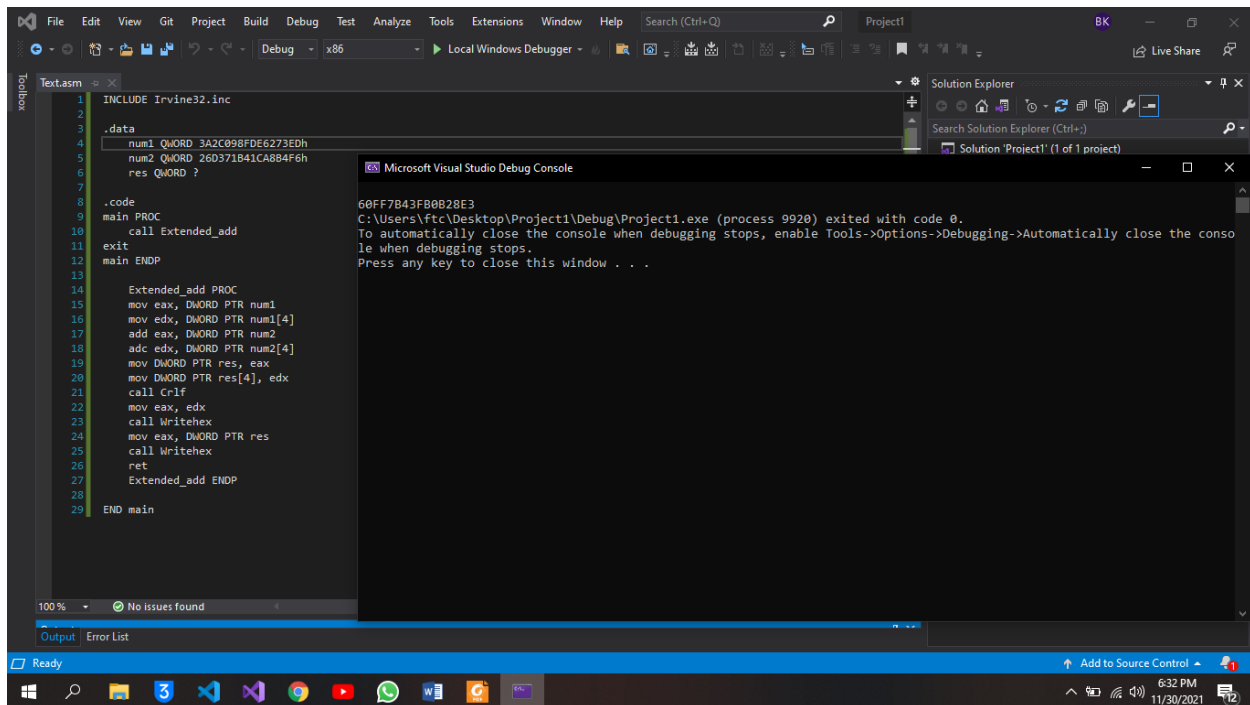
The screenshot shows the Visual Studio IDE with the following components:

- Text.asm:**

```
1 INCLUDE Irvine32.inc
2
3 .data
4     val1 SDWORD 8
5     val2 SDWORD 4
6     val3 SDWORD 2
7
8 .code
9 main PROC
10     mov eax, 0
11     mov eax, val2
12     cdq
13     div val3
14     mov ebx, eax
15     mov eax, val1
16     cdq
17     div val2
18     mul ebx
19     mov val1, eax
20     call Writedec
21 main ENDP
22 END main
```
- Microsoft Visual Studio Debug Console:**

```
4
C:\Users\ftc\Desktop\Project1\Debug\Project1.exe (process 11696) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```
- Status Bar:** 100% zoom, No issues found, Ln: 17, Ch: 8, Col: 11, TABS, CRLF.

Task#06:



The screenshot shows the Visual Studio IDE with the following components:

- Text.asm:**

```
1 INCLUDE Irvine32.inc
2
3 .data
4     num1 QWORD 3A2C098FDE6273EDh
5     num2 QWORD 26D371B41CA8B4F6h
6     res QWORD ?
7
8 .code
9 main PROC
10     call Extended_add
11     exit
12 main ENDP
13
14 Extended_add PROC
15     mov eax, DWORD PTR num1
16     mov edx, DWORD PTR num1[4]
17     add eax, DWORD PTR num2
18     adc edx, DWORD PTR num2[4]
19     mov DWORD PTR res, eax
20     mov DWORD PTR res[4], edx
21     call Crlf
22     mov eax, edx
23     call Writehex
24     mov eax, DWORD PTR res
25     call Writehex
26     ret
27 Extended_add ENDP
28
29 END main
```
- Microsoft Visual Studio Debug Console:**

```
60FF7B43FB0828E3
C:\Users\ftc\Desktop\Project1\Debug\Project1.exe (process 9920) exited with code 0.
To automatically close the console when debugging stops, enable Tools->Options->Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```
- Status Bar:** 100% zoom, No issues found.

