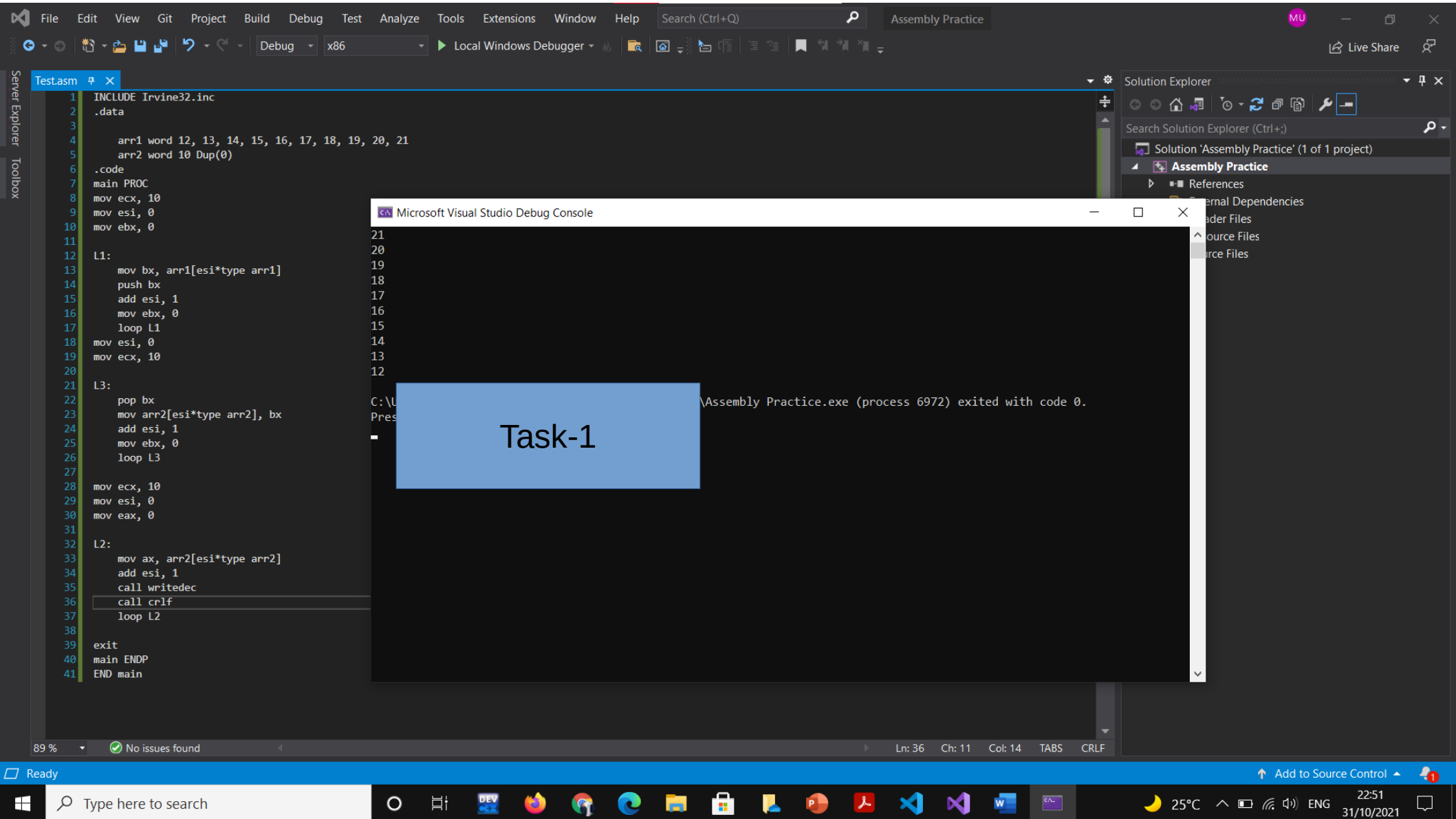


Name: **Kashif Ali**
Roll No: **20P-0648**
Section: **3D**

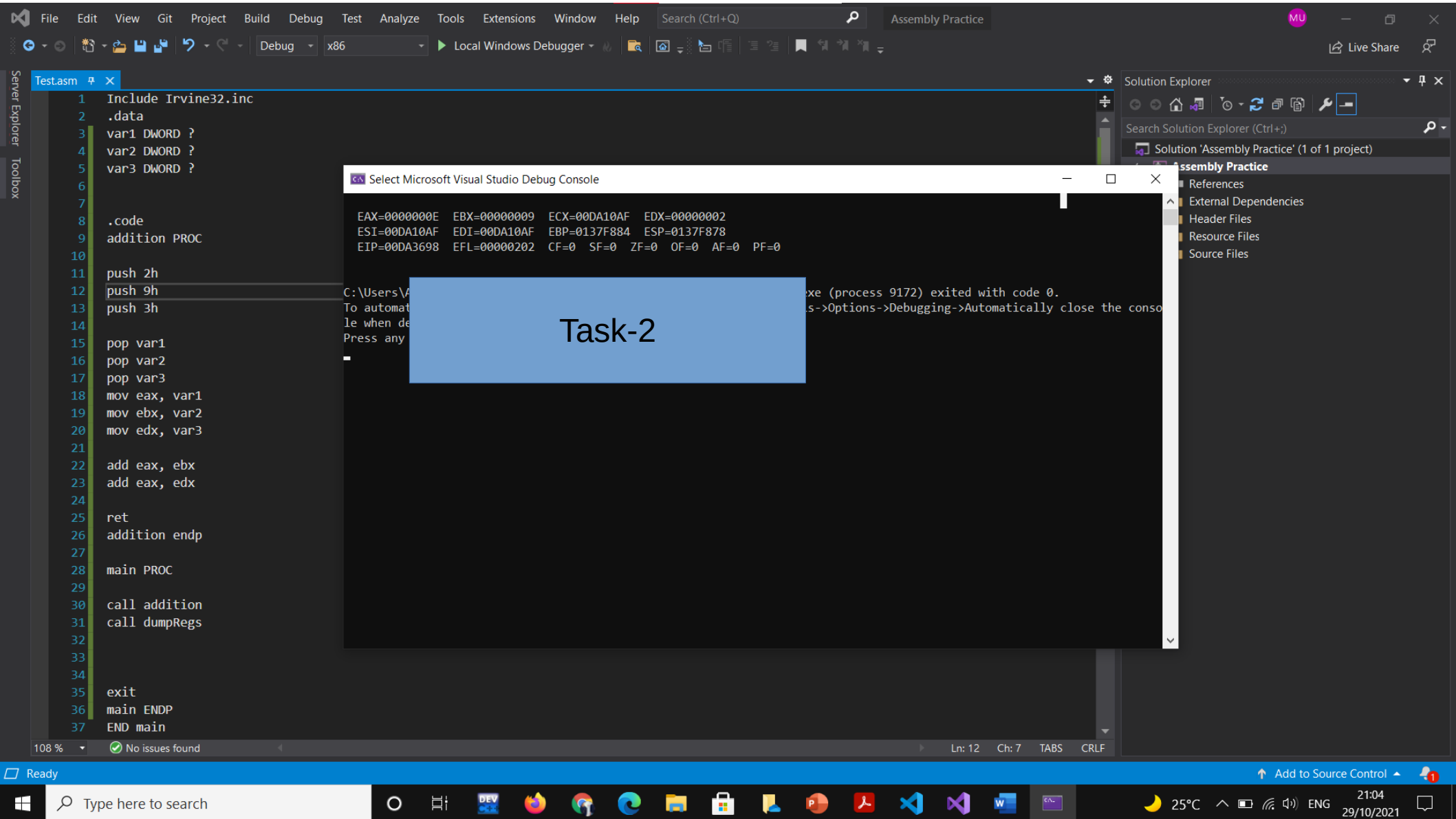
Lab-7 Tasks



Task-1

Microsoft Visual Studio Debug Console

C:\Users\Pres\Assembly Practice\Assembly Practice.exe (process 6972) exited with code 0.



Test.asm

```
1 Include Irvine32.inc
2 .data
3 var1 DWORD ?
4 var2 DWORD ?
5 var3 DWORD ?
6
7
8 .code
9 addition PROC
10
11 push 2h
12 push 9h
13 push 3h
14
15 pop var1
16 pop var2
17 pop var3
18 mov eax, var1
19 mov ebx, var2
20 mov edx, var3
21
22 add eax, ebx
23 add eax, edx
24
25 ret
26 addition endp
27
28 main PROC
29
30 call addition
31 call dumpRegs
32
33
34
35 exit
36 main ENDP
37 END main
```

Select Microsoft Visual Studio Debug Console

```
EAX=0000000E EBX=00000009 ECX=00DA10AF EDX=00000002
ESI=00DA10AF EDI=00DA10AF EBP=0137F884 ESP=0137F878
EIP=00DA3698 EFL=00000202 CF=0 SF=0 ZF=0 OF=0 AF=0 PF=0
```

Task-2

Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'Assembly Practice' (1 of 1 project)

Assembly Practice

References

External Dependencies

Header Files

Resource Files

Source Files

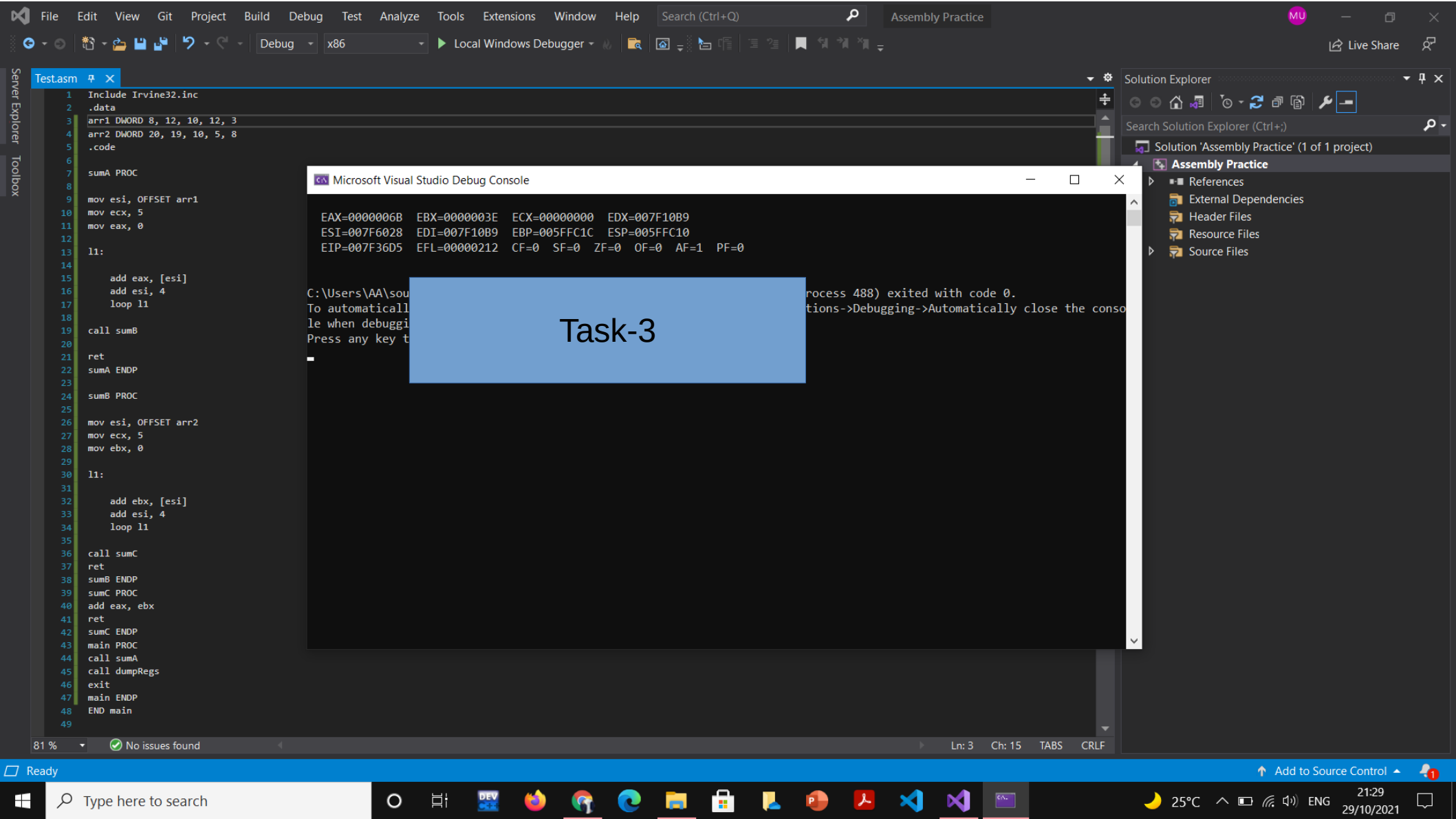
108 % No issues found

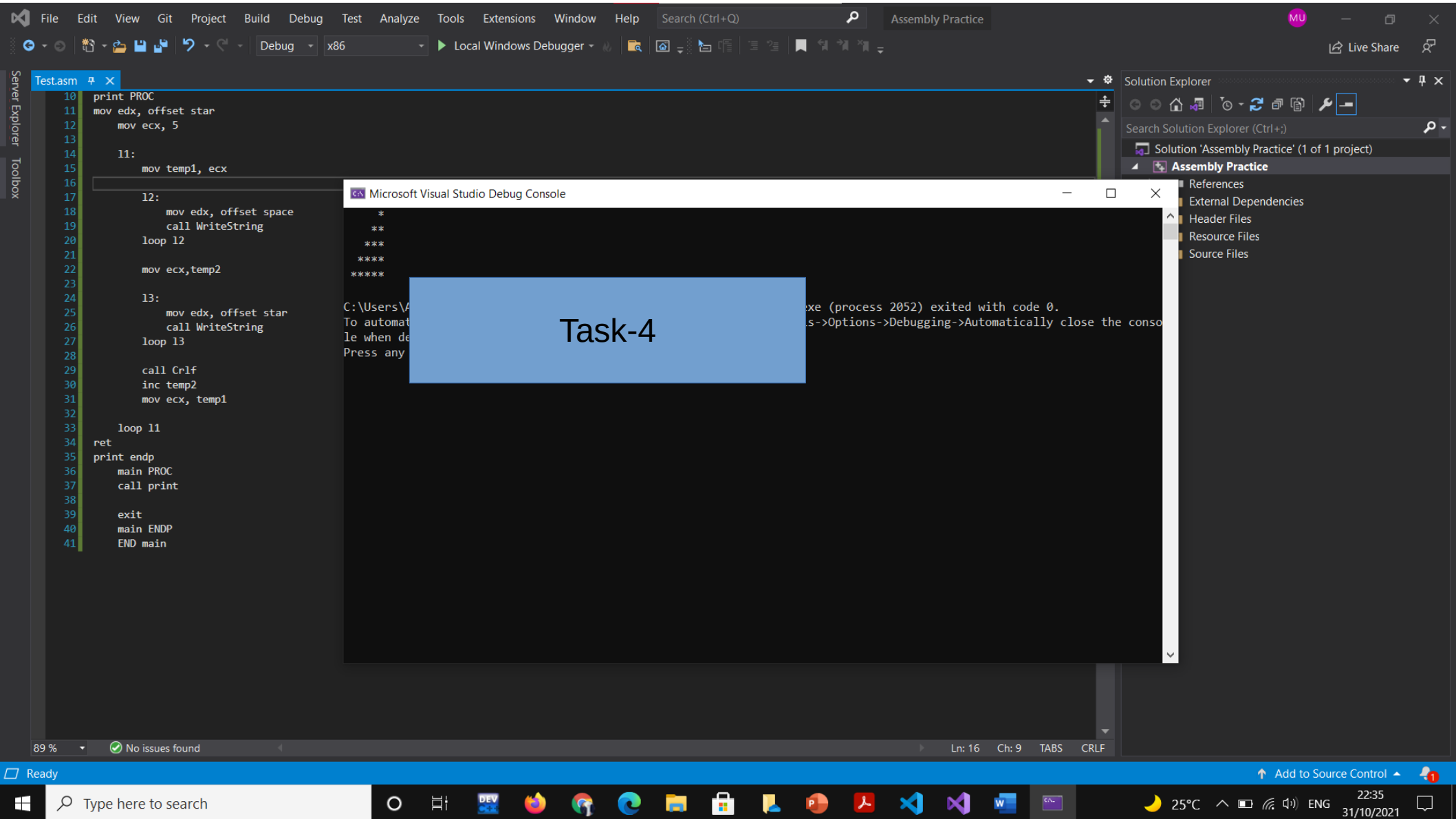
Ln: 12 Ch: 7 TABS CRLF

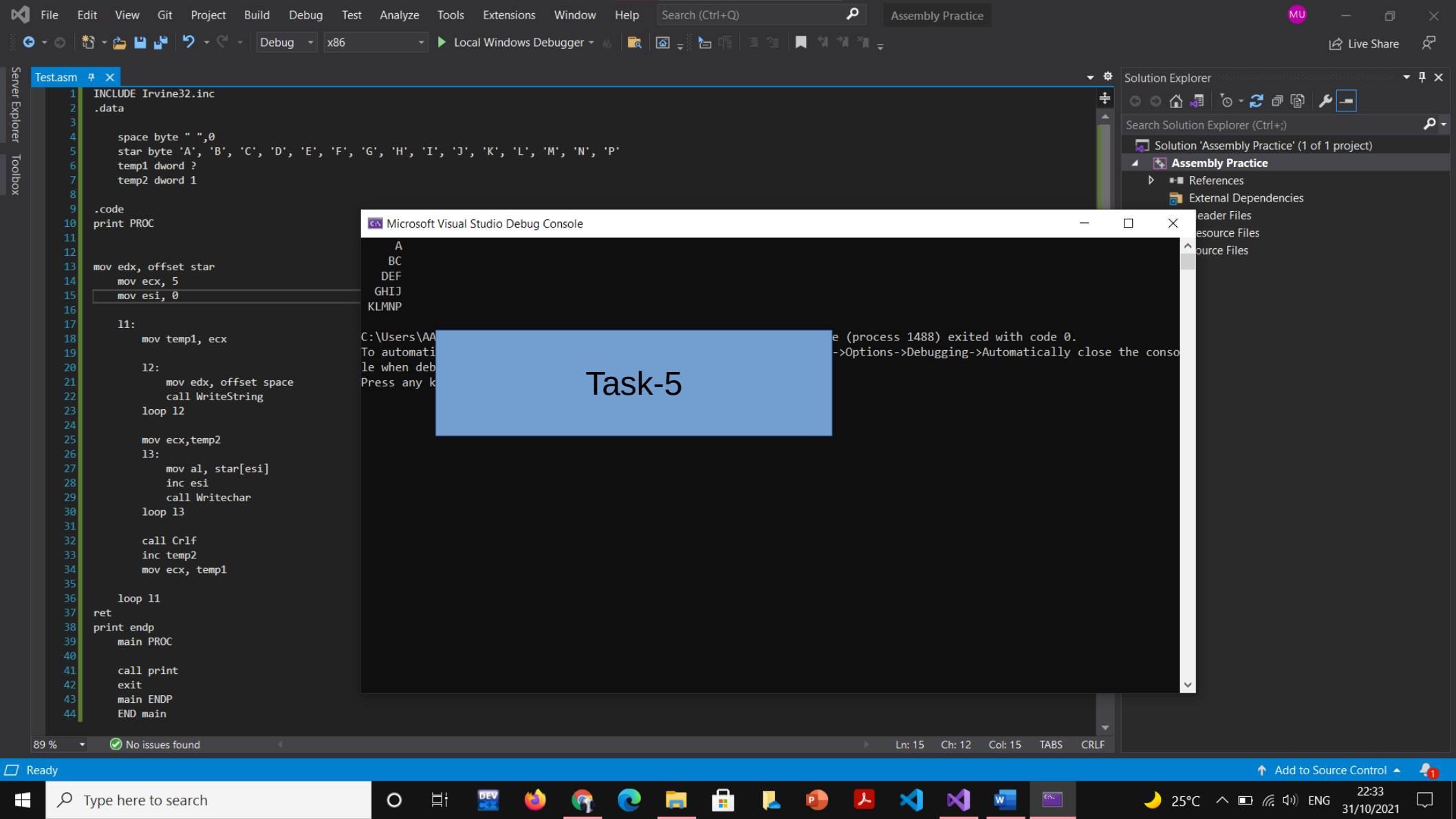
Add to Source Control

Type here to search

25°C 21:04 29/10/2021







```
1 INCLUDE Irvine32.inc
2 .data
3
4     space byte " ",0
5     star byte 'A', 'B', 'C', 'D', 'E', 'F', 'G', 'H', 'I', 'J', 'K', 'L', 'M', 'N', 'P'
6     temp1 dword ?
7     temp2 dword 1
8
9 .code
10 print PROC
11
12
13     mov edx, offset star
14     mov ecx, 5
15     mov esi, 0
16
17     11:
18         mov temp1, ecx
19
20     12:
21         mov edx, offset space
22         call WriteString
23         loop 12
24
25     mov ecx,temp2
26     13:
27         mov al, star[esi]
28         inc esi
29         call Writechar
30         loop 13
31
32     call Crlf
33     inc temp2
34     mov ecx, temp1
35
36     loop 11
37     ret
38 print endp
39 main PROC
40
41     call print
42     exit
43     main ENDP
44     END main
```

Microsoft Visual Studio Debug Console

A
BC
DEF
GHIJ
KLMNP

C:\Users\AA...e (process 1488) exited with code 0.
To automati...->Options->Debugging->Automatically close the console
le when deb...
Press any k

Task-5

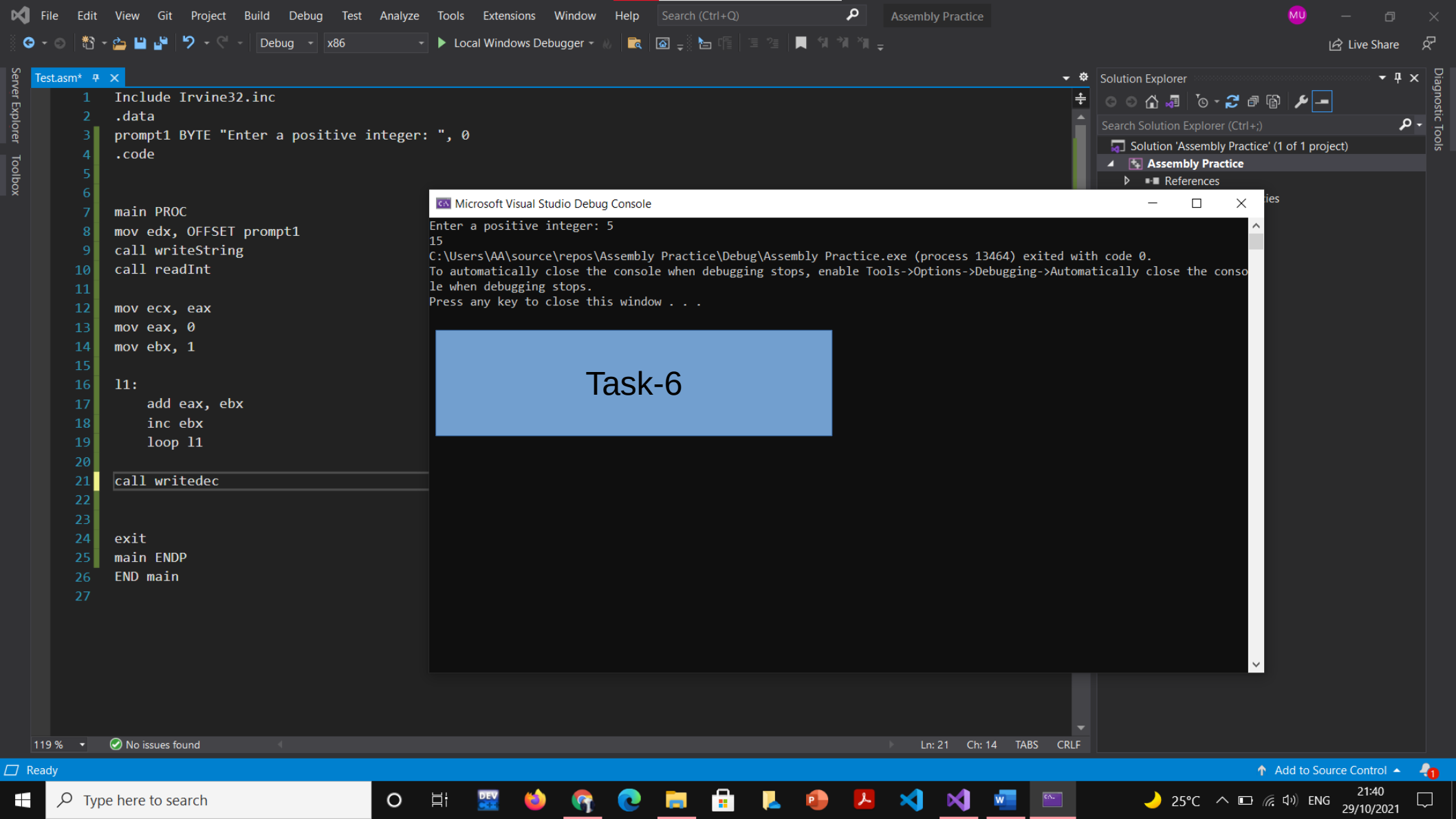
Solution Explorer

Search Solution Explorer (Ctrl+;)

Solution 'Assembly Practice' (1 of 1 project)

Assembly Practice

- References
- External Dependencies
- Header Files
- Resource Files
- Source Files



Test.asm*

```
1 Include Irvine32.inc
2 .data
3 prompt1 BYTE "Enter a positive integer: ", 0
4 .code
5
6
7 main PROC
8 mov edx, OFFSET prompt1
9 call writeString
10 call readInt
11
12 mov ecx, eax
13 mov eax, 0
14 mov ebx, 1
15
16 l1:
17 add eax, ebx
18 inc ebx
19 loop l1
20
21 call writedec
22
23
24 exit
25 main ENDP
26 END main
27
```

Microsoft Visual Studio Debug Console

```
Enter a positive integer: 5
15
C:\Users\AA\source\repos\Assembly Practice\Debug\Assembly Practice.exe (process 13464) 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 . . .
```

Task-6

Solution Explorer

Search Solution Explorer (Ctrl+)

Solution 'Assembly Practice' (1 of 1 project)

Assembly Practice

References

119 % No issues found

Ln: 21 Ch: 14 TABS CRLF

Add to Source Control

Ready

Type here to search

25°C 21:40 29/10/2021

Thank You

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