

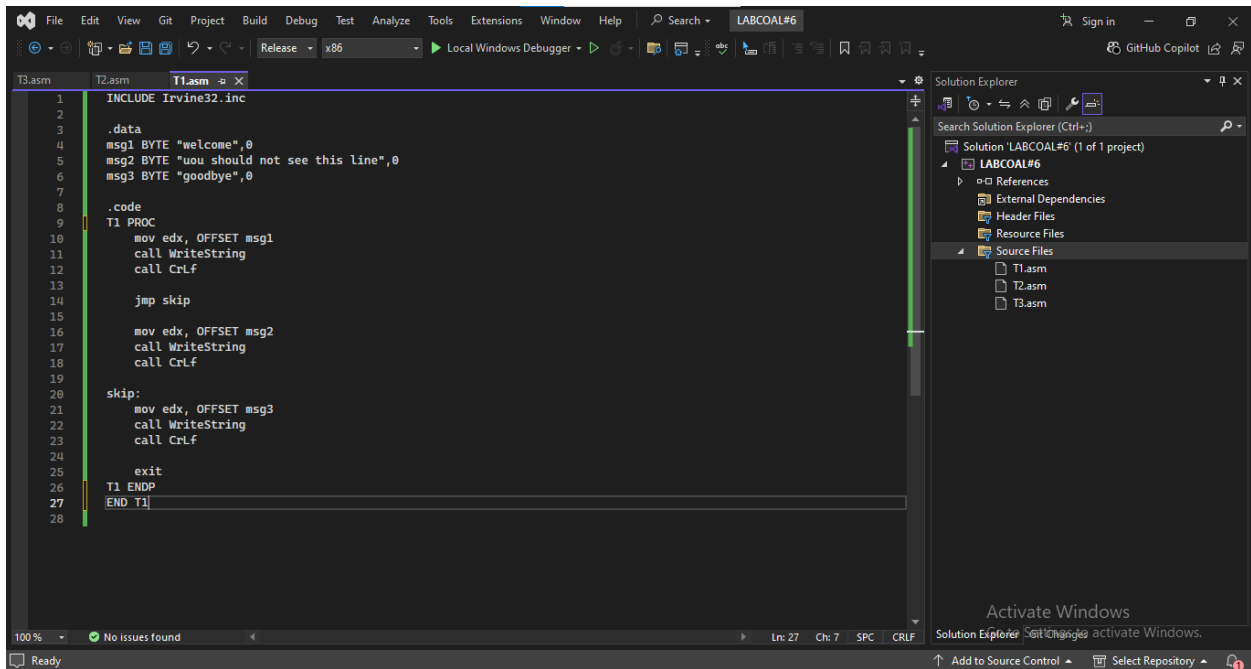
LAB COAL # 6

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24K-0006

BAI-3A

Task#1:



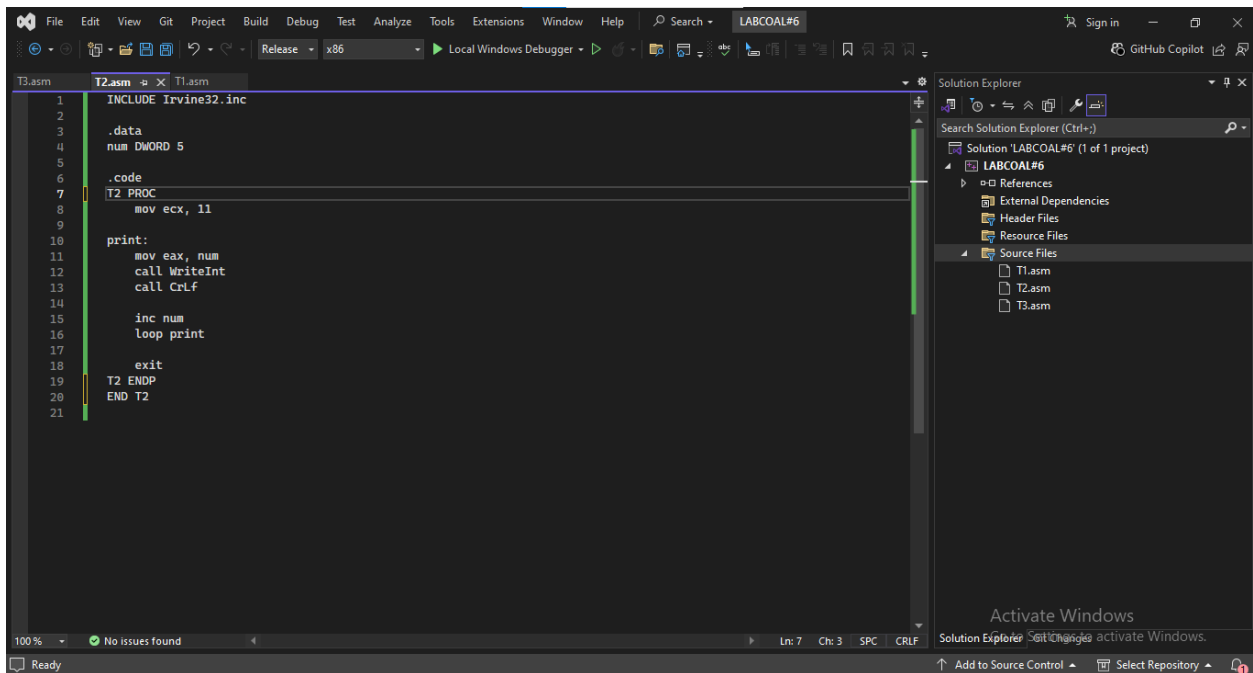
```
1  INCLUDE Irvine32.inc
2
3  .data
4  msg1 BYTE "welcome",0
5  msg2 BYTE "uou should not see this line",0
6  msg3 BYTE "goodbye",0
7
8  .code
9  T1 PROC
10     mov edx, OFFSET msg1
11     call WriteString
12     call CrLf
13
14     jmp skip
15
16     mov edx, OFFSET msg2
17     call WriteString
18     call CrLf
19
20     skip:
21     mov edx, OFFSET msg3
22     call WriteString
23     call CrLf
24
25     exit
26 T1 ENDP
27 END T1
28
```

Output:

```
welcome
goodbye

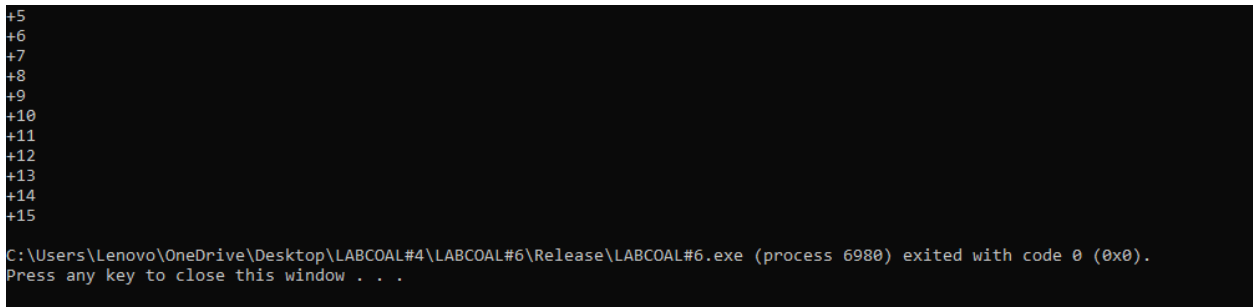
C:\Users\Lenovo\OneDrive\Desktop\LABCOAL#4\LABCOAL#6\Release\LABCOAL#6.exe (process 564) exited with code 0 (0x0).
Press any key to close this window . . .
```

Task#2:



```
1 INCLUDE Irvine32.inc
2
3 .data
4 num DWORD 5
5
6 .code
7 T2 PROC
8     mov ecx, 11
9
10    print:
11        mov eax, num
12        call WriteInt
13        call Crlf
14
15        inc num
16        loop print
17
18    exit
19 T2 ENDP
20 END T2
21
```

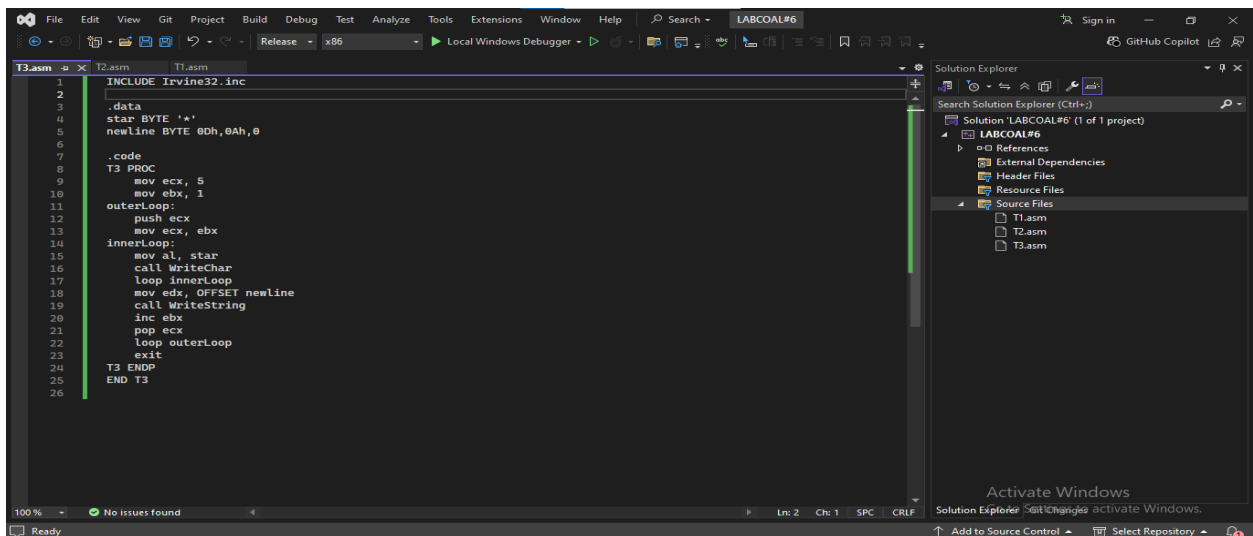
Output:



```
+5
+6
+7
+8
+9
+10
+11
+12
+13
+14
+15

C:\Users\Lenovo\OneDrive\Desktop\LABCOAL#4\LABCOAL#6\Release\LABCOAL#6.exe (process 6980) exited with code 0 (0x0).
Press any key to close this window . . .
```

Task#3:



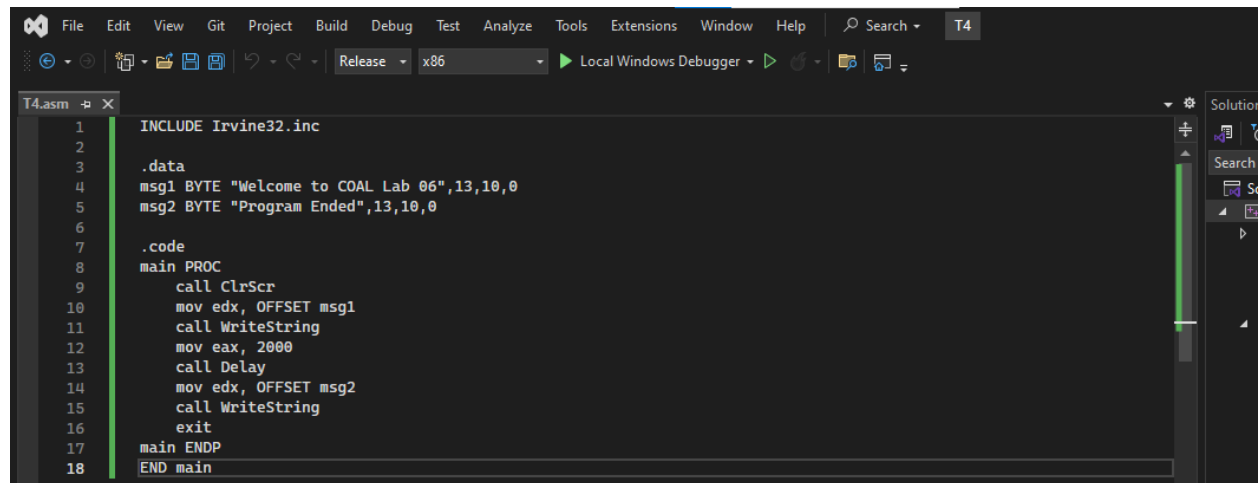
```
1 INCLUDE Irvine32.inc
2
3 .data
4 star BYTE 'star'
5 newline BYTE 0Dh, 0Ah, 0
6
7 .code
8 T3 PROC
9     mov ecx, 5
10    mov ebx, 1
11    outerLoop:
12        push ecx
13        mov ecx, ebx
14        innerLoop:
15            mov al, star
16            call WriteChar
17            loop innerLoop
18            mov edx, OFFSET newline
19            call WriteString
20            inc ebx
21            pop ecx
22            loop outerLoop
23        exit
24 T3 ENDP
25 END T3
26
```

Output:

```
*
**
***
****
*****

C:\Users\Lenovo\OneDrive\Desktop\LABCOAL#4\LABCOAL#6\Release\LABCOAL#6.exe (process 4068) exited with code 0 (0x0).
Press any key to close this window . . .
```

Task#4:



```
T4.asm
1  INCLUDE Irvine32.inc
2
3  .data
4  msg1 BYTE "Welcome to COAL Lab 06",13,10,0
5  msg2 BYTE "Program Ended",13,10,0
6
7  .code
8  main PROC
9      call ClrScr
10     mov edx, OFFSET msg1
11     call WriteString
12     mov eax, 2000
13     call Delay
14     mov edx, OFFSET msg2
15     call WriteString
16     exit
17 main ENDP
18 END main
```

Output:

```
Welcome to COAL Lab 06
Program Ended

C:\Users\Lenovo\OneDrive\Desktop\LABCOAL#4\T4\Release\T4.exe (process 15216) exited with code 0 (0x0)
```