

COAL Lab 01

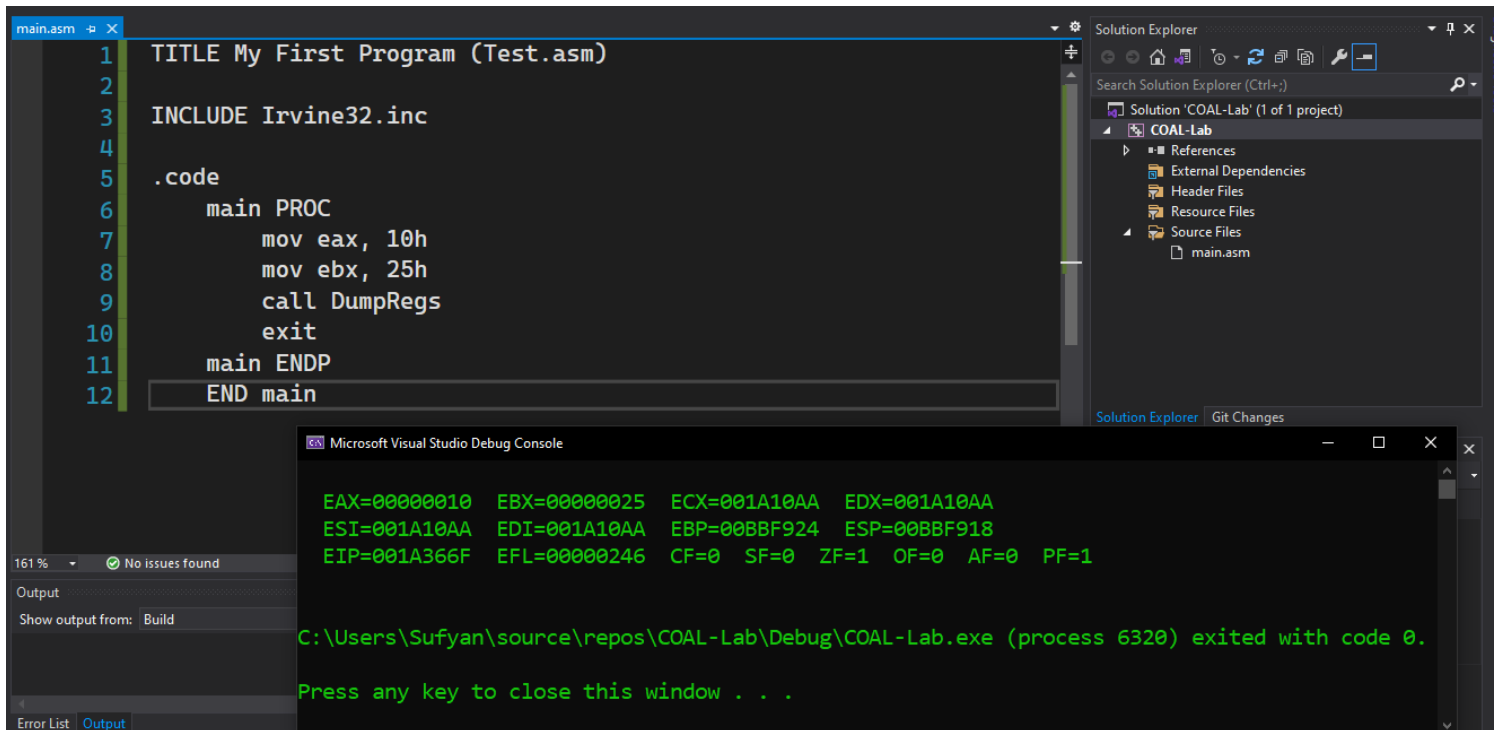
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Task 1:



The screenshot displays the Visual Studio IDE with an assembly project named 'COAL-Lab'. The main window shows the assembly code in 'main.asm' with the following content:

```
1  TITLE My First Program (Test.asm)
2
3  INCLUDE Irvine32.inc
4
5  .code
6      main PROC
7          mov eax, 10h
8          mov ebx, 25h
9          call DumpRegs
10         exit
11     main ENDP
12     END main
```

The Solution Explorer on the right shows the project structure:

- Solution 'COAL-Lab' (1 of 1 project)
 - COAL-Lab
 - References
 - External Dependencies
 - Header Files
 - Resource Files
 - Source Files
 - main.asm

The Microsoft Visual Studio Debug Console at the bottom shows the following output:

```
EAX=00000010  EBX=00000025  ECX=001A10AA  EDX=001A10AA
ESI=001A10AA  EDI=001A10AA  EBP=00BBF924  ESP=00BBF918
EIP=001A366F  EFL=00000246  CF=0  SF=0  ZF=1  OF=0  AF=0  PF=1

C:\Users\Sufyan\source\repos\COAL-Lab\Debug\COAL-Lab.exe (process 6320) exited with code 0.
Press any key to close this window . . .
```

Task 2:

The screenshot displays the Microsoft Visual Studio IDE with an assembly program open in the main editor and a debug console window showing the execution results.

Assembly Code (main.asm):

```
1  TITLE My First Program (Test.asm)
2  INCLUDE Irvine32.inc
3
4  .code
5      main PROC
6          mov eax, 47h
7          mov ebx, 39h
8          mov ecx, 60h
9          add eax, ebx
10         add eax, ecx
11         mov ebx, 85h
12         mov ecx, 64h
13         add eax, ebx
14         add eax, ecx
15         call DumpRegs
16         exit
17     main ENDP
18     END main
```

Microsoft Visual Studio Debug Console Output:

```
EAX=000001C9  EBX=00000085  ECX=00000064  EDX=002210AA
ESI=002210AA  EDI=002210AA  EBP=00EFC20  ESP=00EFC14
EIP=00223686  EFL=00000206  CF=0  SF=0  ZF=0  OF=0  AF=0  PF=1

C:\Users\Sufyan\source\repos\COAL-Lab\Debug\COAL-Lab.exe (process 11972) exited with code 0. Press any key to close this window . . .
```

The interface also shows the Solution Explorer on the right with the project 'COAL-Lab' and its components (References, External Dependencies, Header Files, Resource Files). The Output window at the bottom shows 'No issues found' and 'Show output from: Build'.