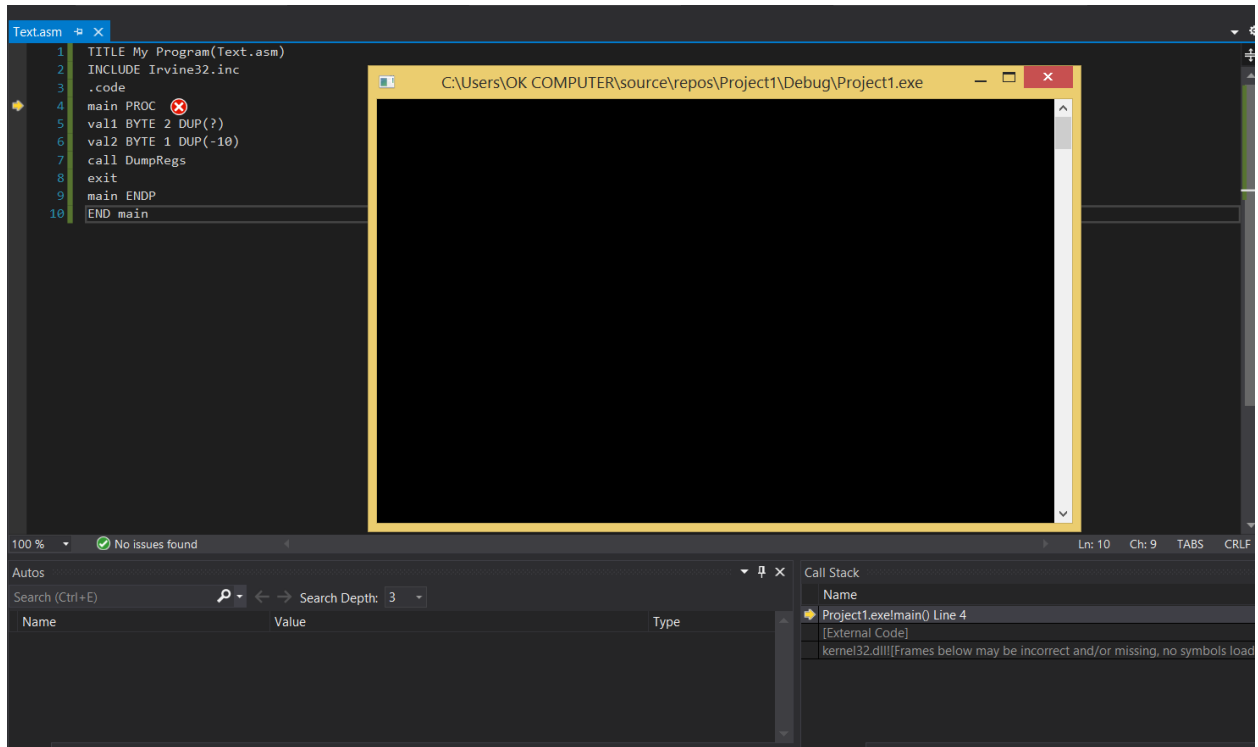
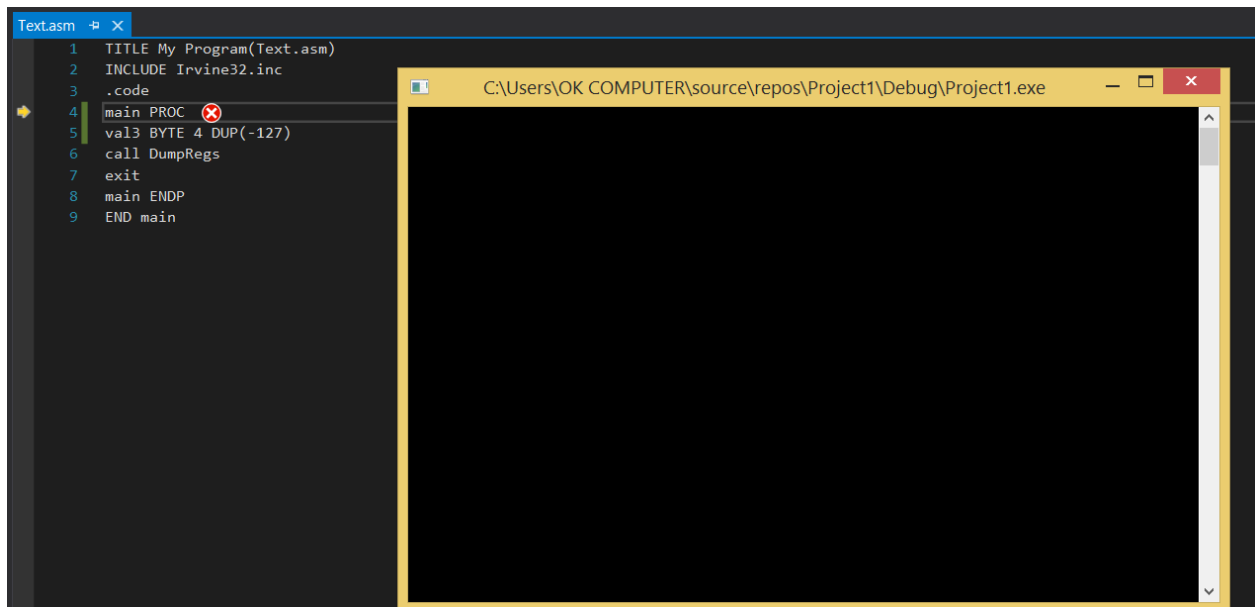


COAL LAB 03

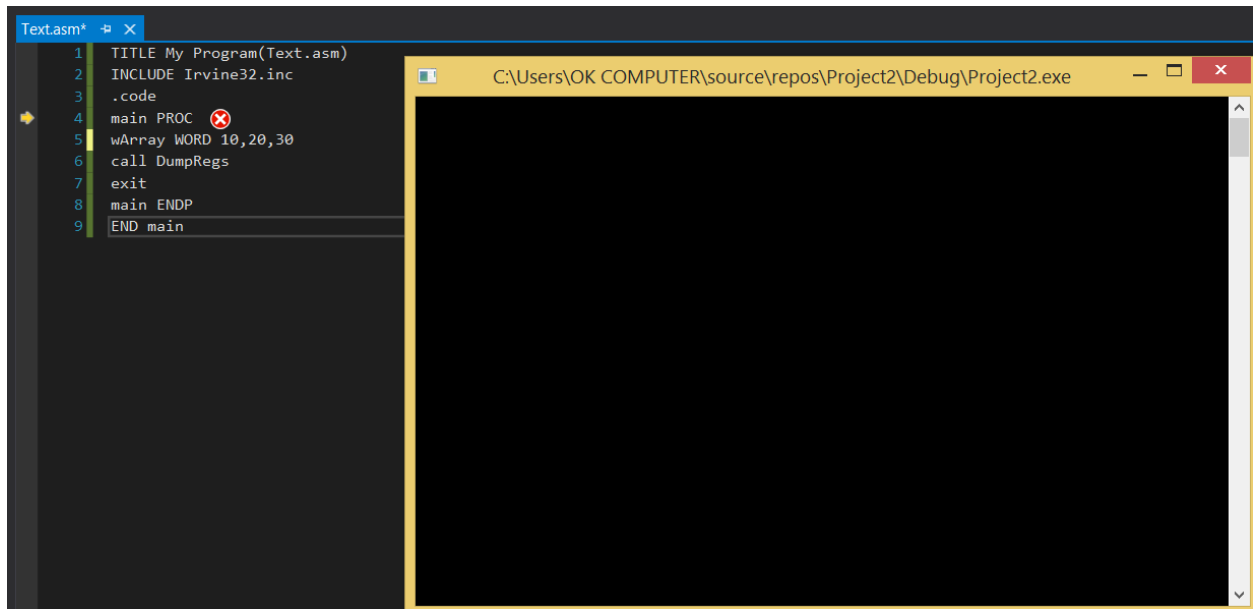
Task#1



Task#2



Task#3

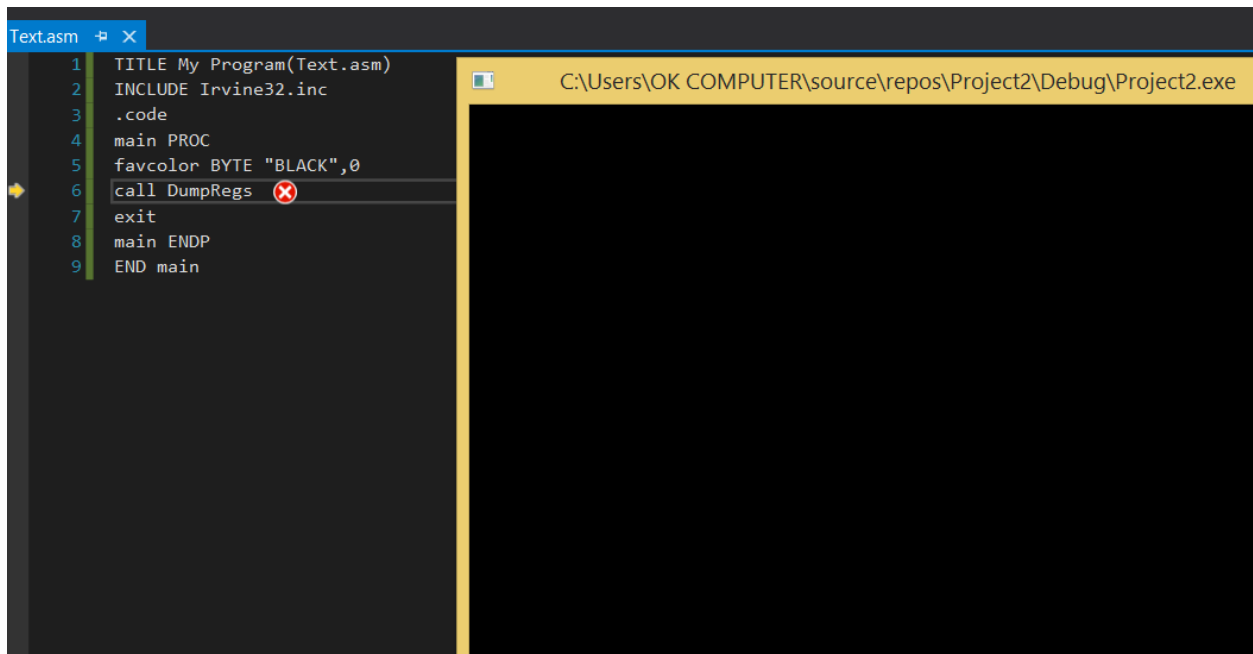


The screenshot shows a debugger interface with two panes. The left pane displays assembly code for a program named 'Text.asm'. The code includes a title, an include directive, and a main procedure that calls 'DumpRegs' and then exits. The right pane shows the execution of the program, which is currently a solid black window, indicating that the program has crashed or is in a state where no output is visible.

```
1 TITLE My Program(Text.asm)
2 INCLUDE Irvine32.inc
3 .code
4 main PROC
5     wArray WORD 10,20,30
6     call DumpRegs
7     exit
8 main ENDP
9 END main
```

C:\Users\OK COMPUTER\source\repos\Project2\Debug\Project2.exe

Task#4



The screenshot shows a debugger interface with two panes. The left pane displays assembly code for a program named 'Text.asm'. The code includes a title, an include directive, and a main procedure that sets a color, calls 'DumpRegs', and then exits. The right pane shows the execution of the program, which is currently a solid black window, indicating that the program has crashed or is in a state where no output is visible.

```
1 TITLE My Program(Text.asm)
2 INCLUDE Irvine32.inc
3 .code
4 main PROC
5     favcolor BYTE "BLACK",0
6     call DumpRegs
7     exit
8 main ENDP
9 END main
```

C:\Users\OK COMPUTER\source\repos\Project2\Debug\Project2.exe

```
Text.asm  + X
1  TITLE My Program(Text.asm)
2  INCLUDE Irvine32.inc
3  .code
4  main PROC
5  varA BYTE 2 DUP(12)
6  varB BYTE 2 DUP(2)
7  varC BYTE 2 DUP(13)
8  varD BYTE 2 DUP(8)
9  varE BYTE 2 DUP(14)
10
11  call DumpRegs
12  exit
13  main ENDP
14  END main
```

```
Microsoft Visual Studio Debug Console

EAX=7FBBDE3D  EBX=7F02F000  ECX=00F310AA  EDX=00F310AA
ESI=00F310AA  EDI=00F310AA  EBP=0114FEC4  ESP=0114FEB0
EIP=00F3366F  EFL=00000202  CF=0  SF=0  ZF=0  OF=0  AF=0  PF=0

C:\Users\OK COMPUTER\source\repos\Project2\Debug\Project2.exe (process 344)
ted with code 0.
To automatically close the console when debugging stops, enable Tools->Op
Debugging->Automatically close the console when debugging stops.
Press any key to close this window . . .
```

Task#5

```
Text.asm  + X
1  Title COAL LAB(Text.asm)
2  INCLUDE Irvine32.inc
3  .code
4  main PROC
5  mov eax,10h
6  mov ebx,15h
7  add eax,ebx
8  mov ecx,10h
9  sub ecx,ebx
10 sub eax,ecx
11 mov ebx,20h
12 add eax,ebx
13 mov ebx,30h
14 add eax,ebx
15 mov ebx,eax
16
17
18 call DumpRegs
19 exit
20 main ENDP
21 END main
22
```

```
Microsoft Visual Studio Debug Console

EAX=0000007A  EBX=0000007A  ECX=FFFFFFFF  EDX=003B10AA
ESI=003B10AA  EDI=003B10AA  EBP=0027FAA4  ESP=0027FA94
EIP=003B368A  EFL=00000202  CF=0  SF=0  ZF=0  OF=0  AF=0  PF=0

C:\Users\OK COMPUTER\source\repos\Project2\Debug\Project2.exe (process 2096) exi
ted 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

```
masm.targets  Text.asm X
1 Title COAL LAB(Text.asm)
2 INCLUDE Irvine32.inc
3 .data
4 main PROC X
5 vara BYTE 10000b
6 varb BYTE 10101b
7 varc BYTE 100000b
8 vard BYTE 110000b
9 mov eax,0b
10 mov ebx,0b
11 mov ecx,0b
12 mov edx,0b
13 mov eax,vara
14 add eax,varb
15 add eax,varc
16 mov ebx,vara
17 sub ebx,varb
18 sub eax,ebx
19 add eax,varc
20 mov eax,ebx
21
22 main ENDP
23 END main
```

Task#7

```
masm.targets  Text.asm X
1 Title COAL LAB(Text.asm)
2 INCLUDE Irvine32.inc
3 .code
4 main PROC X
5 Data1 WORD 8
6 Data2 WORD 15
7 Data3 WORD 20
8
9 mov bx,20
10 add bx,Data1
11 sub bx,Data3
12 add bx,20
13 add bx,Data2
14 mov eax,bx
15 call DumpRegs
16 exit
17 main ENDP
18 END main
```

C:\Users\OK COMPUTER\source\repos\Project2\Debug\Project2.exe

00 % No issues found Ch: 9