

20F-0292_BCS 4E_LAB 1

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PROBLEM STATEMENT: Make 4 variables var1 to var4 respectively. Store 3 different values in 1st 3 variables. Use register to add 1st 2 variables. then subtract its answer from variable 03. Take input from user in var4. then exchange var4 and var 3. at each step show register values to screen.

SOLUTION:

INCLUDE Irvine32.inc

```
.data
msg byte"After Addition: ",0
msg1 byte"After Subtraction: ",0
msg2 byte"After Swapping: ",0
msg3 byte"Enter Number to Swapp: ",0
var1 dword 9
var2 dword 3
var3 dword 5
var4 dword ?
.code
main PROC
 mov eax, var1
 mov ebx, var2
 mov ecx, var3
 mov edx, offset msg
 call writeString
 add eax,ebx
 call writedec
 call crlf
mov edx, offset msg1
call writeString
sub eax,ecx
call writedec
call crlf
mov var3,eax
call writedec
call crlf
mov ebx, var3
mov edx, offset msg3
call writeString
mov eax, var4
call readdec
mov edx, offset msg2
call writeString
xchg ebx , eax
call writedec
call crlf
call WaitMsg
 exit
main ENDP
END main
```

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Microsoft Visual Studio Debug Console

After Addition: 12

After Subtraction: 7

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