Assembly Language For X86 Processors 6th Edition Irvine Solutions Manual

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```
TITLE Chapter 3 Exercise 2
                                              (ch03 02.asm)
Comment !
Description: Write a program that contains a definition
of each data type listed in Section 3.4. Initialize each
variable to a value that is consistent with its data type.
** For best appearance, set your editor's Tab indent size to 5 **
INCLUDE Irvine32.inc
.data
var1 BYTE 10h
var2 SBYTE -14
var3 WORD 2000h
var4 SWORD +2345
var5 DWORD 12345678h
var6 SDWORD -2342423
var7 FWORD 0
var8 OWORD 1234567812345678h
var9 TBYTE 100000000123456789Ah
var10 REAL4 -1.25
var11 REAL8 3.2E+100
var12 REAL10 -6.223424E-2343
.code
main PROC
     exit
main ENDP
END main
```

```
TITLE Chapter 3 Exercise 3
                                (ch03 03.asm)
Comment !
Description: Write a program that defines symbolic constants
for all of the days of the week. Create an array variable
that uses the symbols as initializers.
** For best appearance, set your editor's Tab indent size to 5 **
!
INCLUDE Irvine32.inc
Sunday = 0
Monday = 1
Tuesday = 2
Wednesday = 3
Thursday = 4
Friday = 5
Saturday = 6
.data
myDays BYTE Sunday, Monday, Tuesday, Wednesday,
          Thursday, Friday, Saturday
.code
main PROC
     exit
main ENDP
END main
```

```
TITLE Chapter 4 Exercise 4
                               (ch04 04.asm)
Comment !
Description: Write a program that defines symbolic names
for several string literals (characters between quotes).
Use each symbolic name in a variable definition.
** For best appearance, set your editor's Tab indent size to 5 **
INCLUDE Irvine32.inc
sym1 TEXTEQU <"System failure">
sym2 TEXTEQU <"Press any key to continue...">
sym3 TEXTEQU <"Insufficient user training">
sym4 TEXTEQU <"Please re-start the system">
.data
msg1 BYTE sym1
msg2 BYTE sym2
msg3 BYTE sym3
msg4 BYTE sym4
.code
main PROC
     exit
main ENDP
END main
```

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```
TITLE Chapter 3 Exercise 1
                                              (ch03 01.asm)
Comment !
Description: Using the AddSub program from Section 3.2 as a
reference, write a program that subtracts three 16-bit
integers using only registers. Insert a call DumpRegs
statement to display the register values.
** For best appearance, set your editor's Tab indent size to 5 **
INCLUDE Irvine32.inc
.code
main PROC
     mov ax, 4000h
     mov bx, 1000h
     mov cx, 1500h
     sub ax, bx
     sub ax,cx
     call DumpRegs
     exit
main ENDP
END main
```