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1. Code

```
.MODEL SMALL
.DATA
MSG DB 0AH,0DH,'THE SUM OF '
C1 DB ?, ' AND '
C2 DB ?, ' IS '
SUM DB ?, '$'
.CODE
Main PROC
MOV AX,@DATA ; initialize DS
MOV DS,AX
MOV AH,2 ; display '?'
MOV DL,'?'
INT 21H
MOV AH,1
INT 21H ; read 1st digit
MOV C1,AL ; store it in memory
INT 21H ; read 2nd digit
MOV C2,AL ; store it in memory
ADD AL,C1 ; add the two numbers
SUB AL,30H ; *
MOV SUM,AL ; store result in memory
```

LEA DX,MSG ; get the start address

MOV AH,9

INT 21H ; print the MSG until \$

MOV AH,4CH ;return to DOS

INT 21H

Main ENDP

END Main

2.Code

.MODEL SMALL

.DATA

MSG DB 0AH,0DH,"ENTER THREE INITIALS: \$"

C1 DB ?,0AH,0DH

C2 DB ?,0AH,0DH

C3 DB ?, '\$'

.CODE

MAIN PROC

MOV AX,@DATA ;initialize DS

MOV DS,AX

MOV AH,9 ; display MSG

LEA DX,MSG

INT 21H

MOV AH,1 ; read & store 1st char.

INT 21H

MOV C1,AL

```
INT 21H ; read & store 2nd char.
MOV C2,AL
INT 21H ; read & store 3rd char.
MOV C3,AL
MOV AH,2 ; display enter
MOV DL,0AH
INT 21H
MOV DL,0DH
INT 21H
MOV AH,9 ; display message from c1 until $
LEA DX,C1
INT 21H
MOV AH,4CH ; return to DOS
INT 21H
MAIN ENDP
END MAIN
```

code. 3

```
.MODEL SMALL
.DATA
MSG DB 0AH,0DH,'ENTER A HEX DIGIT: $'
MSG2 DB 0AH,0DH,'IN DECIMAL IT IS 1'
C1 DB ?, '$'
.CODE
```

```

MAIN PROC

MOV AX,@DATA ;initialize DS

MOV DS,AX

MOV AH,9 ; display 1st MSG

LEA DX,MSG

INT 21H

MOV AH,1 ; read hex digit

INT 21H

SUB AL,11H ;*

MOV C1,AL ;store it

MOV AH,9 ;display 2nd MSG until $

LEA DX,MSG2

INT 21H

MOV AH,4CH ; return to DOS

INT 21H

MAIN ENDP

END MAIN

```

4. Code

```

.MODEL SMALL

.DATA

STARS DB 0AH,0DH,'*****','$'

.CODE

MAIN PROC

```

```
MOV AX,@DATA ;initialize DS
MOV DS,AX
MOV AH,9 ; prepare to display
LEA DX,STARS
INT 21H ; display 10 times *
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
INT 21H
MOV AH,4CH ;return to DOS
INT 21H
MAIN ENDP
END MAIN
```