

Hoque, Md. Samiul

18-38844-3

1

.MODEL SMALL

.STACK 100H

.DATA

NUM1 DB ?

NUM2 DB ?

RESULT DB ?

MSG1 DB 10,13,"ENTER FIRST DIGIT: \$"

MSG2 DB 10,13,"ENTER SECOND DIGIT: \$"

MSG3 DB 10,13,"THE SUM IS: \$"

.CODE

MAIN PROC

MOV AX,DATA

MOV DS,AX

LEA DX,MSG1

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV NUM1,AL

LEA DX,MSG2

MOV AH,9

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV NUM2,AL

ADD AL,NUM1

MOV RESULT,AL

MOV AH,0

AAA

ADD AH,30H

ADD AL,30H

MOV BX,AX

LEA DX,MSG3

MOV AH,9

INT 21H

MOV AH,2

MOV DL,BH

INT 21H

MOV AH,2

MOV DL,BL

INT 21H

EXIT:

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

2

.model small

.stack 100h

.data

a db "Enter First Digit: \$"

b db "Enter Second Digit: \$"

c db "The Sum = \$"

d db "Subtraction : \$"

.code

main proc

mov ax,@data

mov ds,ax

mov ah,9

lea dx,a

int 21h

mov ah,1

int 21h

mov bh,al

mov ah,2

mov dl,10

int 21h

mov dl,13

int 21h

mov ah,9

lea dx,b

int 21h

mov ah,1

int 21h

mov bl,al

```
mov ah,2  
mov dl,10  
int 21h  
mov dl,13  
int 21h
```

```
mov ah,9  
lea dx,c  
int 21h
```

```
add bh,bl  
sub bh,48
```

```
mov ah,2  
mov dl,bh  
int 21h
```

```
mov ah,2  
mov dl,10  
int 21h  
mov dl,13  
int 21h
```

```
mov ah,9  
lea dx,d  
int 21h
```

```
sub bh,bl
add bh,48
```

```
mov ah,2
mov dl,bh
int 21h
```

```
exit:
```

```
mov ah,4ch
int 21h
main endp
end main
```

```
4..MODEL SMALL
```

```
.DATA
```

```
STARS DB ', 00000 9999999',0AH,0DH,'$'
```

```
MID DB '0 0 '
```

```
C1 DB ?
```

```
C2 DB ?
```

```
C3 DB ?, '9 9',0AH,0DH,'$'
```

```
.CODE
```

```
MAIN PROC
```

```
MOV AX,@DATA ; initialize DS
MOV DS,AX
MOV AH,1 ;read & store 3
;initials
INT 21H
MOV C1,AL
INT 21H
MOV C2,AL
INT 21H
MOV C3,AL
MOV AH,2 ; CR to current line
MOV DL,0DH
INT 21H
MOV AH,9 ;( display # from the
; beginning of line that will
;cause to erase the 3 initial
;and write over them)
LEA DX,STARS
INT 21H

LEA DX,MID ;( display the middle
;line with initials)
INT 21H
LEA DX,MID ;( display the middle
;line with initials)
INT 21H
```

```
LEA DX,MID ;( display the middle  
;line with initials)
```

```
INT 21H
```

```
LEA DX,STARS ;continue displaying stars  
INT 21H
```

```
MOV AH,4CH ; return to DOS
```

```
INT 21H
```

```
MAIN ENDP
```

```
END MAIN
```