# Lab Test 1 Samiul Karim 201-15-3041 PC-D

# Answer to the question no 1

```
;Samiul Karim
;Ans to the question no 1
INCLUDE 'EMU8086.INC'
.MODEL SMALL
.STACK 100H
. DATA
NAM DB "Samiul Karim $"
ID DB "201-15-3041 $"
SECTION DB "PC-D $"
.CODE
MAIN PROC
    MOV AX,@DATA
    MOV DS, AX
    MOV AH,9
    LEA DX, NAM
    INT 21H
    PRINTN " "
    LEA DX, ID
    INT 21H
    PRINTN " "
    LEA DX, SECTION
    INT 21H
    PRINTN " "
    PRINT "Give the name initiaL: "
    MOV AH,1
```

```
INT 21H

MOV BL,AL

INT 21H

MOV CL,AL

PRINTN

PRINT "Output: "

MOV AH,2

MOV DL,BL

INT 21H

MOV DL,CL

INT 21H

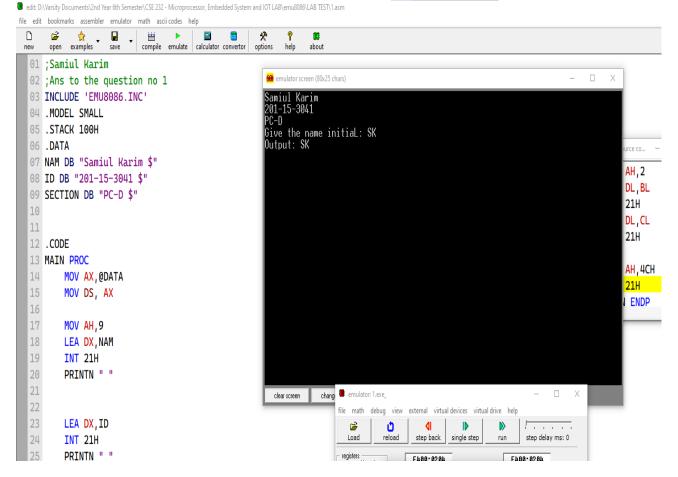
MOV AH,4CH

INT 21H
```

### **END MAIN**

MAIN ENDP

## Screenshot:



# Answer to the question no 2

# INCLUDE 'EMU8086.INC' .MODEL SMALL .STACK 100H .DATA .CODE

### MAIN PROC

```
PRINT "Input: "

MOV AH,1

INT 21H

MOV BL,AL

PRINTN " "

PRINT "Output: "

MOV AH,2

MOV DL,BL

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP
```

### **END MAIN**

### Screenshot:

```
Tille edit bookmarks assembler emulator math ascii codes help

□ prew open examples save compile emulate calculator convertor options

□ INCLUDE 'EMU8086.INC'

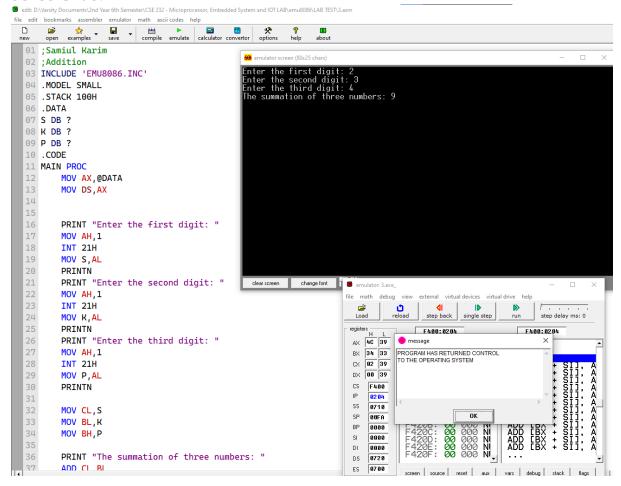
□ Set emulator screen (71x17 chars)
   02 .MODEL SMALL
                                                   Input: ?
Output: ?
   03 .STACK 100H
   04 .DATA
   05 .CODE
   06
   07 MAIN PROC
   08
           PRINT "Input: "
   09
              MOV AH,1
   10
              INT 21H
              MOV BL, AL
PRINTN " "
   11
   12
   13
              PRINT "Output: "
   14
              MOV AH, 2
   15
              MOV DL, BL
                                                      clear screen change font
   16
              INT 21H
   17
              MOV AH, 4CH
   18
              INT 21H
              MAIN ENDP
   20 END MAIN
                                                                                                  emulator: 2.exe_
```

# Answer to the question no 3

```
1. Summation
   ;Samiul Karim
   ;Addition
  INCLUDE 'EMU8086.INC'
   .MODEL SMALL
  .STACK 100H
  . DATA
  S DB ?
  K DB ?
  P DB ?
  .CODE
  MAIN PROC
       MOV AX, @DATA
       MOV DS, AX
       PRINT "Enter the first digit: "
       MOV AH,1
       INT 21H
       MOV S,AL
       PRINTN
       PRINT "Enter the second digit: "
       MOV AH,1
       INT 21H
       MOV K, AL
       PRINTN
       PRINT "Enter the third digit: "
       MOV AH,1
       INT 21H
       MOV P, AL
       PRINTN
       MOV CL, S
       MOV BL, K
       MOV BH, P
       PRINT "The summation of three numbers: "
       ADD CL, BL
       SUB CL,30H
       ADD CL, BH
       SUB CL,30H
       MOV AH, 2
       MOV DL, CL
       INT 21H
       MOV AH, 4CH
       INT 21H
       MAIN ENDP
```

### **END MAIN**

### Screenshot:



### 2. Subtraction

```
;Samiul Karim
; subtraction
INCLUDE 'EMU8086.INC'
.MODEL SMALL
.STACK 100H
. DATA
S DB ?
K DB ?
P DB ?
.CODE
MAIN PROC
    MOV AX, @DATA
    MOV DS, AX
    PRINT "Enter the first digit: "
    MOV AH,1
    INT 21H
    MOV S, AL
    PRINTN
    PRINT "Enter the second digit: "
    MOV AH,1
```

```
INT 21H
    MOV K, AL
    PRINTN
    PRINT "Enter the third digit: "
    MOV AH,1
    INT 21H
    MOV P, AL
    PRINTN
    MOV CL, S
    MOV BL, K
    MOV BH, P
    PRINT "The subtraction of three numbers: "
    SUB CL, BL
    ADD CL,30H
    SUB CL, BH
    ADD CL,30H
    MOV AH, 2
    MOV DL,CL
    INT 21H
    MOV AH, 4CH
    INT 21H
    MAIN ENDP
END MAIN
```

