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

        MAIN ENDP

END MAIN
```
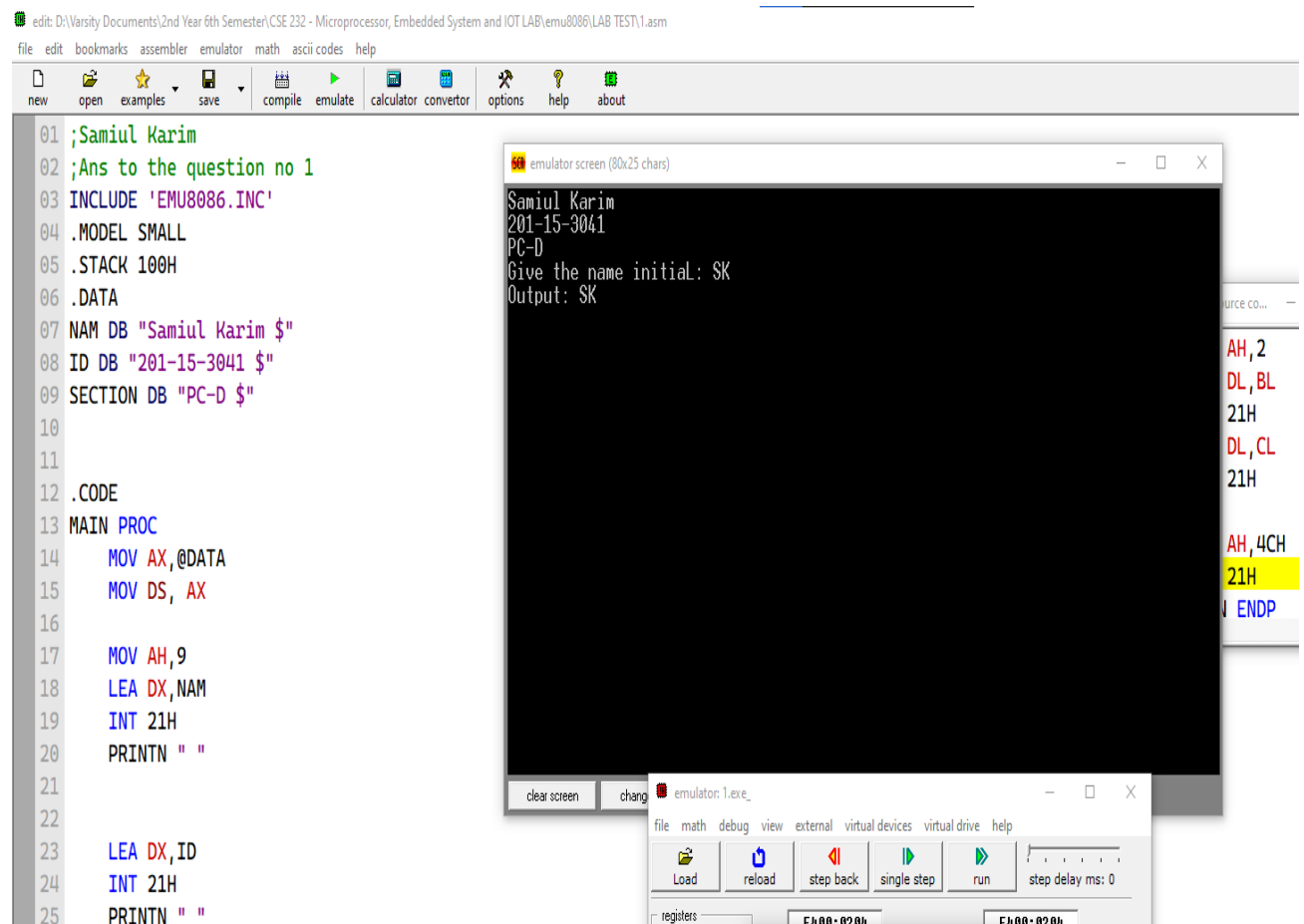
Screenshot:

```
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
```
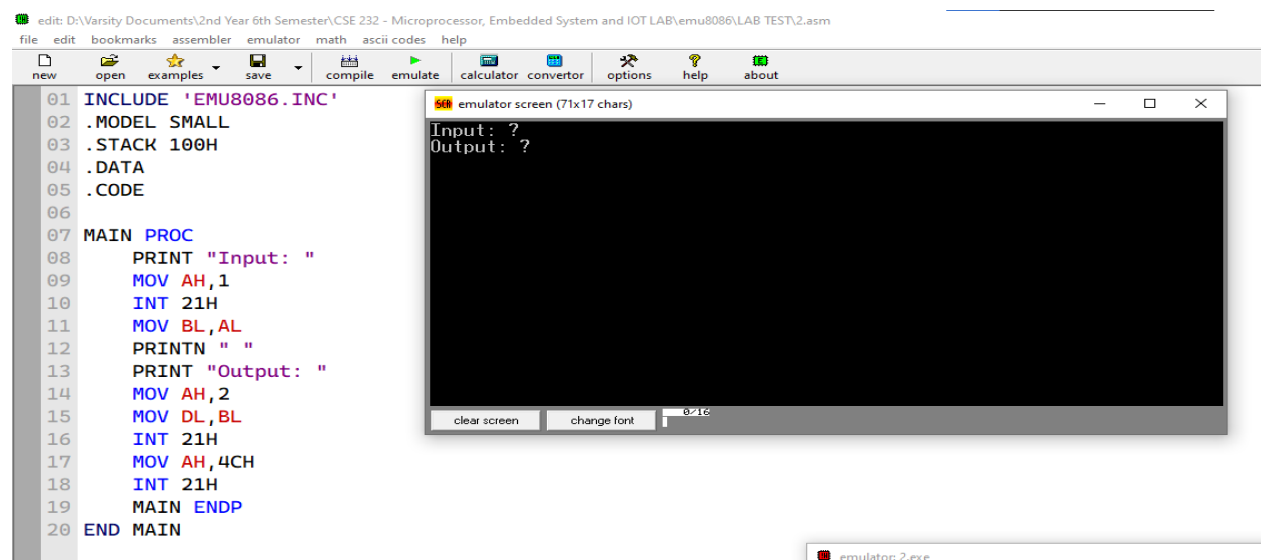
Screenshot:

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
```
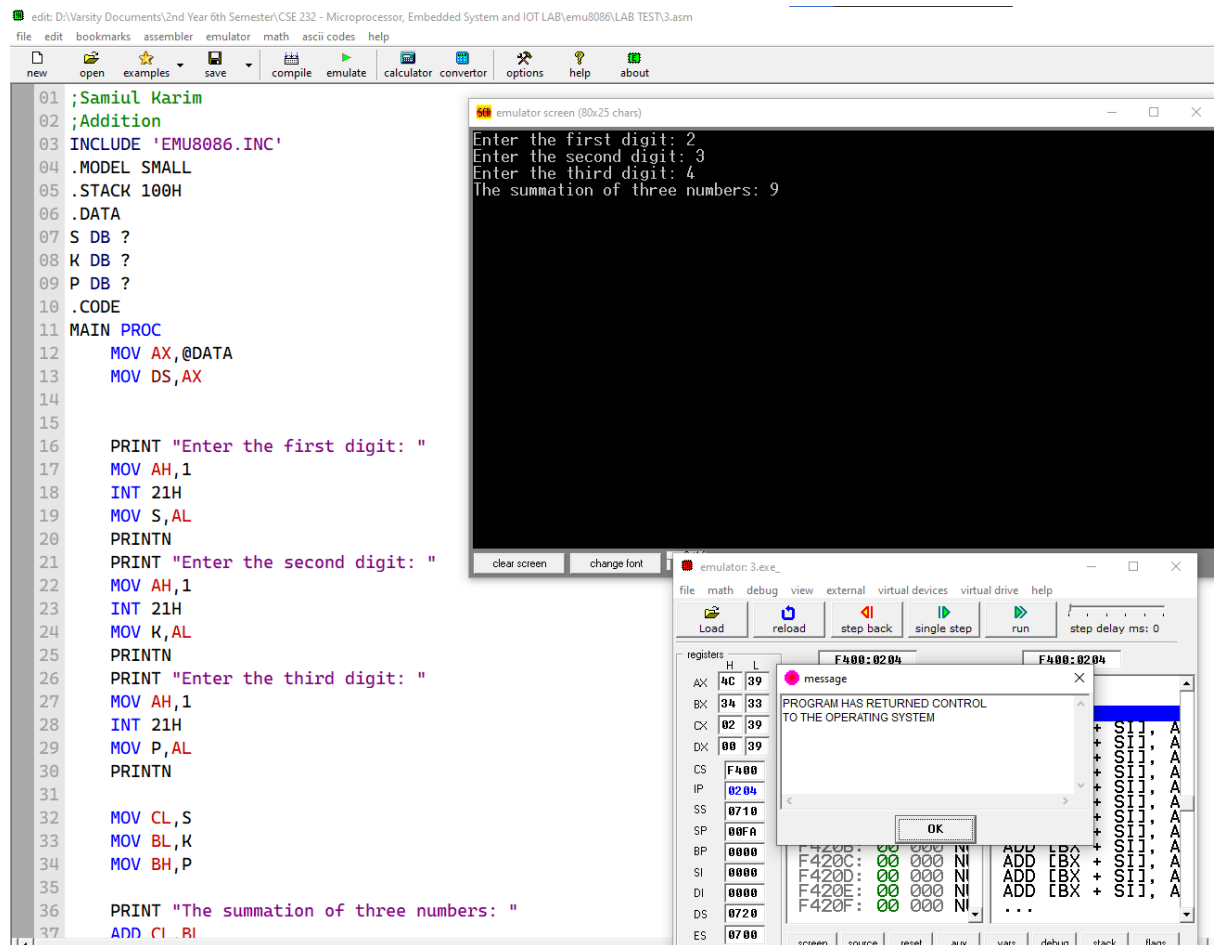
END MAIN
Screenshot:

2. Subtraction

```asm
;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
    Screenshot:
```