**Lab 1**

**Program 1**

.MODEL SMALL

.STACK 100H

.DATA

MS DB "Addition of two numbers: $"

MS1 DB 10,10,13,"Enter first number: $"

MS2 DB 10,10,13,"Enter second number: $"

MS3 DB 10,13,"Result: $"

NUM1 DB ?,'$'

NUM2 DB ?,'$'

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,9

MOV DX,OFFSET MS

INT 21H

MOV AH,9

MOV DX,OFFSET MS1

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV NUM1,AL

MOV AH,9

MOV DX,OFFSET MS2

INT 21H

MOV AH,1

INT 21H

SUB AL,30H

MOV NUM2,AL

MOV AH,9

MOV DX,OFFSET MS3

INT 21H

MOV AL,NUM1

SUB AL,NUM2

ADD AL,30H

MOV AH,2

MOV DL,AL

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

**Program 2**

.MODEL SMALL

.STACK 100H

.DATA

MS1 DB "Enter Upper Case: $"

MS2 DB 10,10,13,"In Lower Case: "

RESULT DB ?,'$'

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,9

MOV DX,OFFSET MS1

INT 21H

MOV AH,1

INT 21H

ADD AL,20H

MOV RESULT,AL

MOV AH,9

MOV DX,OFFSET MS2

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN

**Program 3**

.MODEL SMALL

.STACK 100H

.DATA

MSG DB "My name is RONY$"

.CODE

MAIN PROC

MOV AX,@DATA

MOV DS,AX

MOV AH,9H

MOV DX,OFFSET MSG

INT 21H

MOV AH,4CH

INT 21H

MAIN ENDP

END MAIN