**TASK01**

.MODEL SMALL

.STACK 100H

.DATA

; DEFINE YOUR VARIABLES HERE

X DB "1st Input: $"

Y DB "2nd Input: $"

Z DB "3rd Input: $"

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

; YOUR CODE STARTS HERE

SUB AX,AX

SUB BX,BX

SUB CX,CX

SUB DX,DX

LEA DX,X

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV BL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

LEA DX,Y

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV CL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

LEA DX,Z

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV CH,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

CMP CL,BL

JA L1

JMP L2

L1:MOV DL,CL

JMP L3:

L2:MOV DL,BL

JMP L4:

L3:CMP CL,CH

JA L5

JMP L6:

L5:MOV DL,CL

MOV AH,2

INT 21h

JMP NEXT

L6:MOV DL,CH

MOV AH,2

INT 21h

JMP NEXT

L4:CMP BL,CH

JA L7

JMP L8:

L7:MOV DL,BL

MOV AH,2

INT 21h

JMP NEXT

L8:MOV DL,CH

MOV AH,2

INT 21h

JMP NEXT

NEXT:

; YOUR CODE ENDS HERE

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN

**Task02:**

.MODEL SMALL

.STACK 100H

.DATA

; DEFINE YOUR VARIABLES HERE

X DB "1st Input: $"

Y DB "2nd Input: $"

S DB "Divisible $"

T DB "Not Divisible $"

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

; YOUR CODE STARTS HERE

SUB AX,AX

SUB BX,BX

SUB CX,CX

SUB DX,DX

LEA DX,X

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV BL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

SUB BL,30H

LEA DX,Y

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV CL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

SUB CL,30H

MOV AL,BL

MUL CL

MOV DX,AX

MOV BL,2H

DIV BL

MOV CX,AX

MOV AX,DX

MOV BL,5H

DIV BL

MOV BX,AX

SUB AX,AX

SUB DX,DX

CMP CH,0H

JA L1

CMP CH,0H

JE L2

CMP BH,0H

JA L1

CMP BH,0H

JE L2

JBE NEXT

L1:

LEA DX,T

MOV AH,9

INT 21h

JMP NEXT

L2:

LEA DX,S

MOV AH,9

INT 21h

JMP NEXT

NEXT:

; YOUR CODE ENDS HERE

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN

**Task3:**

.MODEL SMALL

.STACK 100H

.DATA

; DEFINE YOUR VARIABLES HERE

X DB "Enter the month no: $"

Y DB "31 $"

Z DB "28 $"

W DB "30 $"

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

; YOUR CODE STARTS HERE

SUB AX,AX

SUB BX,BX

SUB CX,CX

SUB DX,DX

LEA DX,X

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV BL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

CMP BL,31H

JE L1

CMP BL,33H

JE L1

CMP BL,35H

JE L1

CMP BL,32H

JE L2

JMP L3

L1:LEA DX,Y

MOV AH,9

INT 21h

JMP NEXT

L2:LEA DX,Z

MOV AH,9

INT 21h

JMP NEXT

L3:LEA DX,W

MOV AH,9

INT 21h

JMP NEXT

NEXT:

; YOUR CODE ENDS HERE

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN

**Task4:**

.MODEL SMALL

.STACK 100H

.DATA

; DEFINE YOUR VARIABLES HERE

X DB "1st Side: $"

Y DB "2nd Side: $"

Z DB "3rd Side: $"

A DB "Y $"

B DB "N $"

.CODE

MAIN PROC

MOV AX, @DATA

MOV DS, AX

; YOUR CODE STARTS HERE

SUB AX,AX

SUB BX,BX

SUB CX,CX

SUB DX,DX

LEA DX,X

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV BL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

SUB BL,30H

LEA DX,Y

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV CH,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

SUB CH,30H

LEA DX,Z

MOV AH,9

INT 21h

MOV AH,1

INT 21h

MOV CL,AL

MOV AH,2

MOV DL,0DH

INT 21h

MOV DL,0AH

INT 21h

SUB CL,30H

MOV BH,BL

ADD BL,CH

CMP BL,CL

JA L1

JMP L4

L1:

MOV BL,BH

ADD BL,CL

CMP BL,CH

JA L2

JMP L4

L2:

MOV BL,BH

ADD CH,CL

CMP CH,BL

JA L3

JMP L4

L3:

LEA DX,A

MOV AH,9

INT 21h

JMP NEXT

L4:

LEA DX,B

MOV AH,9

INT 21h

JMP NEXT

NEXT:

; YOUR CODE ENDS HERE

MOV AX, 4C00H

INT 21H

MAIN ENDP

END MAIN