**Q6: Binary to ASCII**

.MODEL SMALL

.DATA

INPUT DB 10,13 , 'ENTER BINARY NO: $'

OUTPUT DB 10,13, 'THE ASCII CHARACTER IS:$'

ARR DB ?

.CODE

.STARTUP

MOV AH,09H

MOV DX,OFFSET INPUT

INT 21H

MOV BL, 00H

MOV CL,08H

INPUT1: MOV AH,01H

INT 21H

SUB AL,30H

SHL BL,1

ADD BL,AL

LOOP INPUT1

MOV AH,09H

LEA DX,OUTPUT

INT 21H

MOV AH,02H

MOV DL,BL

INT 21H

.EXIT

END

**Q7: ASCII to Binary**

.MODEL SMALL

.DATA

MESG DB 10,13, 'ENTER A NO: $'

RESULT DB 10,13, 'RESULT IS: $'

.CODE

.STARTUP

MOV DX,OFFSET MESG

MOV AH,09H

INT 21H

MOV AH,01H

INT 21H

MOV BL,AL

MOV DX,OFFSET RESULT

MOV AH,09H

INT 21H

MOV CL,08H

MOV AH,00H

MOV AL,BL

L1: SHL AL, 01H

MOV BL,AL

MOV AL,00H

ADC AL,30H

MOV DL,AL

MOV AH,02H

INT 21H

MOV AL,BL

LOOP L1

.EXIT

END