disp macro msg

MOV AH,09H

LEA DX,MAG

INT 21H

ENDM

.model small

.data

ml DB 10,13,"The array is $"

arr DB 20H,10H,1H,2H,12H

m2 DB 10,13 ,"the sum of the array elements is : $"

.code

MOV AX,@data

MOV DS,AX

MOV,BH,5

LEA SI,arr

disp ml

DISP1:

MOV AL,[SI]

MOV BL,AL

MOV CH 02H

MOV CL,04H

DISP2:

ROL BL,CL

MOV DL,BL

AND DL,OFH

CMP DL,09H

JBE AD30

ADD DL,07H

AD30:

ADD DL 30H

MOV AH,02H

INT 21H

DEC CH

JNZ DISP2

MOV AH 02H

MOV DL

INT 21H

INC SI

DEC BH

JNZ DISP1

disp m2

ADD1:

MOV BX,0000H

MOV CX,0000H

MOV AX,0000H

LEA SI,arr

MOV BH,5

ADD2:

ADD AL,[SI]

INC SI

DEC BH

JNZ ADD2

MOV BL,AL

MOV CL,04H

MOV CH,02H

ADD3:

ROL BL,CL

MOV DL,BL

AND DL,0FH

CMP DL,09H

JBE AD\_30

ADD DL,07H

AD\_30:

ADD DL,30H

MOV AH,02H

INT 21H

DEC CH

JNZ ADD3

MOV AH,04CH

INT 21H

END