Write an ALP to store given elements in an array and store the sum of the array elements in an array.

5,6,7,9,1

DATA: DB 0X3

DB 0x5

DB 0x6

DB 0x7

DB 0x9

DB 0x1

SUM: DB 0x0

start:

MOV CX, 0x6 ; set counter to number of elements in the array

MOV SI, OFFSET DATA ; mov the offset of the array to SI. it point to first element in the array

ADD SI, 0X5 ; add 5(number of elements excluding the first element to the address of the first element in SI.

LOOPX: ; start of the loop

MOV DL, BYTE DS[SI] ; mov the element to print in DL

ADD BYTE SUM, DL

ADD DL, 48 ; add 48 to make elements equivalent ASCII value

MOV AH, 0X02 ; mov 0x02 in AH to write the character on screen (standard

;output

INT 0X21 ; DOS interrupt; its software interrupt.

DEC SI ; decrementing SI, which point to previous element in the array

LOOP LOOPX ; end of the loop

HLT