```
[org 0x0100]

        mov  bx, 0                ; initialize array index to zero
        mov  ax, 0                ; initialize sum to zero

l1:     add  ax, [num1+bx]        ; add number to ax
        add  bx, 2                ; advance bx to next index
        cmp  bx, 20               ; are we beyond the last index
        jne  l1                   ; if not add next number

        mov  [total], ax          ; write back sum in memory

        mov  ax, 0x4c00           ; terminate program
        int  0x21

num1:   dw   15, 20, 25, 30, 35, 40, 45, 50
total:  dw   0
```


SOLUTION BY CS_EngineeR