

```

1  section .data
2  msg1 db "Count of Positive numbers:"
3  len1 equ $-msg1
4  msg2 db "Count of negative numbers:"
5  len2 equ $-msg2
6  array db 10,12,-21,-12,-19,-34,41
7
8  %macro print 2
9  mov rax,01
10 mov rdi,01
11 mov rsi,%1
12 mov rdx,%2
13 syscall
14 %endmacro
15
16
17 section .bss
18 count resb 2
19 pcount resb 2
20 ncount resb 2
21 totalcount resb 2
22
23 section .text
24 global _start
25 _start:
26
27 mov byte[count],07
28 mov byte[pcount],00
29 mov byte[ncount],00
30
31 mov rsi,array
32
33 Up:
34     mov al,00
35     add al,[rsi]
36     js neg
37     inc byte[pcount]
38     jmp Down
39     neg:
40     inc byte[ncount]
41
42 Down:
43     add rsi,01
44     dec byte[count]
45     jnz Up
46
47
48
49
50 mov bl,[pcount]
51 mov dl,[ncount]
52 b1:
53

```

```
54 print msg1,len1
55 mov bh,[pcount]
56 call disp
57
58
59
60 print msg2,len2
61 mov bh,[ncount]
62 call disp
63
64 mov rax,60
65 mov rdi,00
66 syscall
67
68 disp:
69 mov byte[count],02
70
71 loop:
72     rol bh,04
73     mov al,bh
74     AND al,0FH
75     cmp al,09
76     jbe l1
77     add al,07h
78     l1:add al,30h
79     mov[totalcount],al
80     print totalcount,02
81     dec byte[count]
82     jnz loop
83 ret
```