section .text

2 global \_start ;must be declared for linker (ld)

3

4 \_start:

5

6 mov eax,x ;number bytes to be summed

7 mov ebx,0 ;EBX will store the sum

8 mov ecx, 5 ;ECX will point to the current element to be summed

9

10 top: add ebx, [eax]

11

12 add eax,1 ;move pointer to next element

13 ;decrement counter

14 loop top ;if counter not 0, then loop again

15

16 done:

17

18 add ebx, '0'

19 mov [sum], ebx ;done, store result in "sum"

20

21 display:

22

23 mov edx,1 ;message length

24 mov ecx, sum ;message to write

25 mov ebx, 1 ;file descriptor (stdout)

26 mov eax, 4 ;system call number (sys\_write)

27 int 0x80 ;call kernel

28

29 mov eax, 1 ;system call number (sys\_exit)

30 int 0x80 ;call kernel

31

32 section .data

33 global x

34 x:

35 db 1

36 db 2

37 db 3

38 db 1

39 db 2

40

41 sum:

42 db 0 , 0xa

