section .data

msg db 'Hello, world!', 0xa ;string to be printed

len equ $ - msg ;length of the string

message DB 'I am loving Assembly!', 0

bytecount db 0

section .text

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

\_start: ;tells linker entry point

mov edx,len ;message length

mov ecx,msg ;message to write

mov ebx,1 ;file descriptor (stdout)

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

int 0x80 ;call kernel

mov ecx, message

printMessage:

mov edx, 1

mov ebx, 1

mov eax, 4

int 0x80

add ecx, 1

cmp byte [ecx], 0

jne printMessage

exit:

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

int 0x80 ;call kernel