System call assignment (assignment #1) for ICS 462 Operating Systems

This assignment is worth 5 points.

The assignment is due January 29th by 1 PM.

This is very simple, just change the string displayed in the ASM program below to be:

“Assignment 1 for your name.”

and perform a 2nd system call that outputs: “All done.”

This means that you little assembly program will do three system calls.

For “your name” in the above, use the name you want credit given for the assignment.

You may run the program on your PC if you have an assembler loaded on it. Otherwise, you can go out on the Internet to site <https://www.tutorialspoint.com/compile_assembly_online.php> (this is probably the example program there).

You are to use a screen shot to show the output for this assignment and this assignment only. Place a copy of your program and the screen shot showing your output in the drop box for assignment 1 on D2L.

section .text

global \_start ;must be declared for using gcc

\_start: ;tell 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 eax, 1 ;system call number (sys\_exit)

int 0x80 ;call kernel

section .data

msg db 'Hello, world!‘ ;our dear string

len equ $ - msg ;length of our dear string