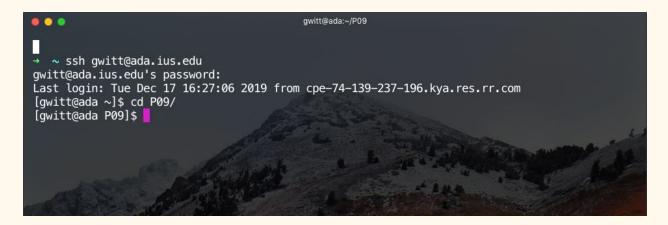
### Computer Structures Greg Witt

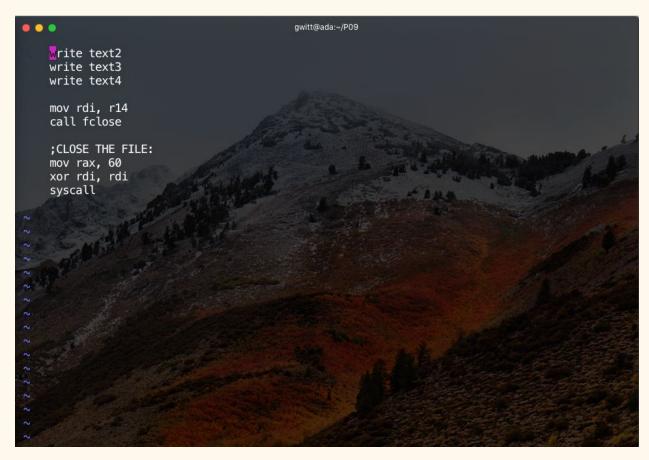
# P-09

## Login to ADA Via SSH



### **Code Execution With VIM**

```
. .
                                                   gwitt@ada:~/P09
i; DEPENDENCIES:
; ensure include file is in directory of the project
; nasm -f elf64 p09.asm
; gcc -m64 -o p09 p09.o
; EXAMPLE OUTPUT:
extern fputs, fopen, fclose
SECTION .data
     ;Create File
    filename: db "myfile.txt", 0 fileopen: db "w",0
   ;DECLARE SPECIFIED TYPES:
text db "0x55,0x56,0x57"
text2 dw "0x1234"
text3 dd "0x12345678"
text4 dq "0x123456789abcdef0"
text5 dq "1.234567e20"
%macro write 1
    mov rsi, r14
    %endmacro
    global main
SECTION .text
         main:
     ; MAIN CODE for the Program
     ; OPEN FILE:
    mov rdi, filename
    mov rsi, fileopen
     call fopen
    mov r14, rax
     ;WRITE TO FILE:
    write text
    write text2
    write text3
                                                                                          1,1
                                                                                                           Top
```



Compiled Code via Commands Listed Terminated SSH Connection



## Examine results from the program in myfile.txt

