P-08

Login to ADA Via SSH

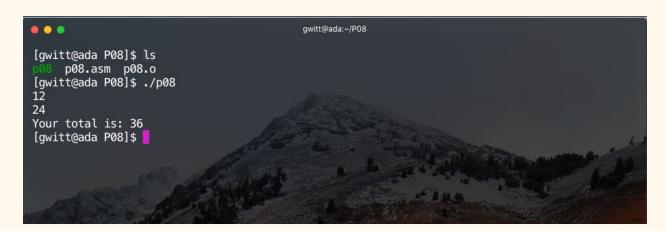
```
gwitt@ada:~

→ ~ ssh gwitt@ada.ius.edu
gwitt@ada.ius.edu's password:
Last login: Tue Dec 17 16:01:48 2019 from cpe-74-139-237-196
.kya.res.rr.com
[gwitt@ada ~]$
```

Code Execution With VIM

```
gwitt@ada:~/P08
. .
extern printf, atoi
SECTION .data
fmt1: db "Your total is: %d", 10,0
fmt2: db "Expression Causes an Overflow", 10,0
global main
SECTION text
main:
  mov rax, 0
     mov rdi,
     mov esi, value1
     mov rdx,
     syscall
    mov edi, value1 ;use c function atoi in edi register call atoi
     mov r14d, eax
     mov rax,
     mov rdi,
     mov esi, value2
     mov rdx,
     syscall
     mov edi, value2
     call atoi
     mov r15d, eax
     add r14d, r15d
mov [sum], r14d
     jo overflow
nooverage:
     mov rdi, fmt1  ;set the approproate message
mov rsi, [sum]
```

Results for Not Overflow:



Results for Overflowing:

