Setting a variable in bash
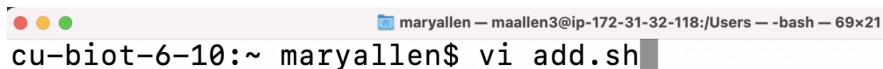
In class we will be setting variables. Remember these facts.

- The dollar sign means evaluate!
- Bash does not allow spaces
- Most often class variables will be paths and filenames

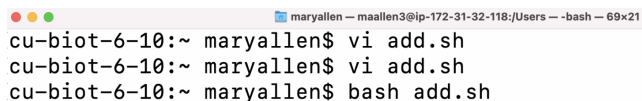1. Open a new document with vim. We will name this document add.sh.
   vim <the name of the document>

   maryallen — maallen3@ip-172-31-32-118:/Users — -bash — 69×21
   ```
   cu-biot-6-10:~ maryallen$ vi add.sh
   ```

2. Type what you see below (remember to use insert mode!!!)

   maryallen — maallen3@ip-172-31-32-118:/Users — vi add.sh — 69×21
   ```
   a=5
   b=5
   echo a
   echo $a
   echo b
   echo $b
   c=a+b
   echo c
   echo $c
   ```

3. Write and quite the document. Do you remember how to do that in vim? (hint :wq)
4. Execute the document by typing bash <the name of the document>

   maryallen — maallen3@ip-172-31-32-118:/Users — -bash — 69×21
   ```
   cu-biot-6-10:~ maryallen$ vi add.sh
   cu-biot-6-10:~ maryallen$ vi add.sh
   cu-biot-6-10:~ maryallen$ bash add.sh
   ```

5. If it works you will see this

```
● ● ●                maryallen — maallen3@ip-172-31-32-118:/Users — -bash — 69×21

cu-biot-6-10:~ maryallen$ vi add.sh
cu-biot-6-10:~ maryallen$ bash add.sh
a
5
b
5
c
a+b
```

6. Look at your bash code.
   What does echo a do?
   What does echo $a do?

The dollar sign means evaluate!

7. Now open the document again and change it to look like this:

```
● ● ●                maryallen — maallen3@ip-172-31-32-118:/Users — vi add.sh — 69×21

a=5
b=5
echo a
echo $a
echo b
echo $b
c=$(($a+$b))
echo c
echo $c
~
~
~
~
~
~
~
~
~
~
~
"add.sh" 9L, 66B
```

8. Execute the script now (see step 4). What do you get? Why?

```
cu-biot-6-10:~ maryallen$ bash add.sh
a
5
b
5
c
10
cu-biot-6-10:~ maryallen$ 
```

9. Now set another variable.

```
●  ●  ●                    📁 temp — vi add.sh — 80×24
a=5
b=5
echo a
echo $a
echo b
echo $b
c=$(($a+$b))
echo c
echo $c
pathandfilename=/Users/allenma/test.txt
echo $pathandfilename
~
~
~
~
~
~
~
~
~
~
~
~
~
~
"add.sh" 11L, 129B
```

10. And execute the command.

```
[cu-biot-6-10:temp maryallen$ bash add.sh                                    ]
a
5
b
5
c
10
/Users/allenma/test.txt
cu-biot-6-10:temp maryallen$ 
```

In class we will be setting variables. Remember these facts.

- *The dollar sign means evaluate!*
- *Bash does not allow spaces*
- *We will use this the most to set variable to path and filenames*