**Changing Permissions**

The [chmod command](https://www.ibm.com/docs/en/aix/7.3?topic=c-chmod-command) lets you change the permissions of a file or directory. It's short for "change mode" (I wish it was called "change permissions", but alas).

**Assignment**

As part of your security audit, you need to know who has access to the files in the private directory. The ls command has a -l option (lowercase "L") that will print out the permissions of each file and directory in long format.

1. List the files in the worldbanc/private directory along with their permissions using ls -l so you can see the current state of affairs.
2. Change the permissions of the private directory and all of its contents so that:
   * The owner can read, write, and execute
   * The group can do nothing
   * Others can do nothing

chmod -R u=rwx,g=,o= DIRECTORY

In the command above, u means "user" (aka "owner"), g means "group", and o means "others". The = means "set the permissions to the following", and the rwx means "read, write and execute". The g= and o= mean "set group and other permissions to nothing". The -R means "recursively", which means "do this to all of the contents of the directory as well".

Be sure to replace DIRECTORY with the path to the private directory.

*Remember, . is a special alias for the current directory.*

1. Once you've changed the permissions, run the ls -l command again to make sure they've been updated.

codemaster@Money:~/worldbanc/public$ cd ..

codemaster@Money:~/worldbanc$ ls

README.md private public

codemaster@Money:~/worldbanc$ cd private

codemaster@Money:~/worldbanc/private$ ls

bin cmd contacts customers logs transactions

codemaster@Money:~/worldbanc/private$ ls -l

total 24

drwxr-xr-x 2 codemaster codemaster 4096 Jan 13 16:04 bin

drwxr-xr-x 4 codemaster codemaster 4096 Jan 13 16:04 cmd

drwxr-xr-x 2 codemaster codemaster 4096 Jan 13 16:04 contacts

drwxr-xr-x 2 codemaster codemaster 4096 Jan 13 16:04 customers

drwxr-xr-x 2 codemaster codemaster 4096 Jan 13 16:04 logs

drwxr-xr-x 3 codemaster codemaster 4096 Jan 13 16:04 transactions

codemaster@Money:~/worldbanc/private$ chmod -R u=rwx,g=,o= .

codemaster@Money:~/worldbanc/private$ ls -l

total 24

drwx------ 2 codemaster codemaster 4096 Jan 13 16:04 bin

drwx------ 4 codemaster codemaster 4096 Jan 13 16:04 cmd

drwx------ 2 codemaster codemaster 4096 Jan 13 16:04 contacts

drwx------ 2 codemaster codemaster 4096 Jan 13 16:04 customers

drwx------ 2 codemaster codemaster 4096 Jan 13 16:04 logs

drwx------ 3 codemaster codemaster 4096 Jan 13 16:04 transactions

codemaster@Money:~/worldbanc/private$