action	command
know the current directory path	pwd
know contents of the current dir	Is
make new directory	mkdir <name> (short form of make - directory)</name>
change to a directory	cd <path directory="" that="" to=""> (short for change directory)</path>
go to the parent directory	cd
make new file	1. vi <filename> edit: press 'i' for insert start writing save and close: hit Crtl + c, type ":wq", hit enter don't save and close: hit Ctrl + c, type ":q!", hit enter 2. nano <filename> and follow the prompt</filename></filename>
open an existing file to make changes in it	ditto as above :)
take a peek in the file (no changes can be made)	cat <filename> (short for concatenate)</filename>
copy file	cp <oldname are="" copy="" path="" thing="" to="" trying="" you=""> <newname be="" copied="" it="" path="" place="" to="" want="" you=""> (short for copy)</newname></oldname>
rename file /directory	mv <oldname move="" path="" thing="" to="" want="" you=""> <newname be="" it="" moved="" path="" place="" to="" want="" you=""> (short for move)</newname></oldname>
delete file	cd <path directory="" file="" parent="" the="" to=""> rm <name> (short for remove)</name></path>
delete directory	rm -r <name> (the -r is for recursive removal)</name>

compile a C file	gcc <c filename=""> -o <compiled filename=""></compiled></c>
run compiled file	./ <compiled filename=""></compiled>

Mac users: PLEASE READ

- 1. when the instructions say hit "ctrl +C", use the ctrl key, not the command key
- 2. There is no PuTTY fom Mac. **Just open the terminal** and you are good to type all these commands!
- To ssh to snowball, you will open the terminal and type
 your_gsu_id>@snowball.cs.gsu.edu and hit enter. Enter your password when prompted.

Important to know for this lab:

- Troubleshooting ssh
 - Make sure your username (the thing that comes before '@student.gsu.edu' in your student email
 - Make sure your password is correct (this is the same password that allows you to login to iCollege)
- Troubleshooting creating directories and files:
 - o Do not name any files or directories with spaces in between for this lab.
 - o make sure the spellings of the commands are correct. For example, "mkdir" is not "makedir":)
- Troubleshooting running C files
 - o A compiler is a program that interprets a C file. gcc is the name of a C compiler.
 - the command "gcc <filename>" asks the gcc compiler to interpret your C code into what a computer can understand, namely binary file.
 - Hence, running "gcc <filename>" creates a new binary file named "a.out" for your C code.
 - If you want this binary file not to be called "a.out", then you will have to use "gcc <filename> -o <compiled filename>"
 - Since your computer understands only binary, you will run this binary file as either "./a.out" or "./<compiled filename> and you will get the output of your C file.
- Troubleshooting running python files:
 - To run python file, you will need to use command "python <filename/path to file and filename>
 - Python is an interpreted language, so it is not going to give you binary file in return like C did, but directly run. So, "python <file>" is equivalent to two C commands, "gcc <file>; ./a.out"