```
scifighost@scifighosts-MacBook-Air ~ % pwd
/Users/scifighost
scifighost@scifighosts-MacBook-Air ~ % cd Downloads
scifighost@scifighosts-MacBook-Air Downloads % ls
biocomputing                          matlabcert.pdf
Course Plan Final.pdf                 Timetable, Sem-I, 2025-26.xls
googlechrome.dmg                      Visual Studio Code.app
matlab_R2024a_macOSIntelProcessor.dmg    VSCode-darwin-universal.zip
scifighost@scifighosts-MacBook-Air Downloads % cd biocomputing
scifighost@scifighosts-MacBook-Air biocomputing % ls
protein.fasta    sequence.fasta
scifighost@scifighosts-MacBook-Air biocomputing % mkdir BE623_labsession_1
scifighost@scifighosts-MacBook-Air biocomputing % cd BE623_labsession_1
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % pwd
/Users/scifighost/Downloads/biocomputing/BE623_labsession_1
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % cp ../sequence.fasta .
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % cd ../protein.fasta .
cd: string not in pwd: ../protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls
sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % cp ../protein.fasta .
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls
protein.fasta    sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -la
total 160
drwxr-xr-x  4 scifighost  staff    128  8 Aug 13:18 .
drwxr-xr-x  5 scifighost  staff    160  8 Aug 13:18 ..
-rw-r--r--@ 1 scifighost  staff      0  8 Aug 13:18 protein.fasta
-rw-r--r--@ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al
total 160
drwxr-xr-x  4 scifighost  staff    128  8 Aug 13:18 .
drwxr-xr-x  5 scifighost  staff    160  8 Aug 13:18 ..
-rw-r--r--@ 1 scifighost  staff      0  8 Aug 13:18 protein.fasta
-rw-r--r--@ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
```

```
 rw 1  1  @ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al /
total 10
drwxr-xr-x  22 root   wheel    704 19 Jul 10:43 .
drwxr-xr-x  22 root   wheel    704 19 Jul 10:43 ..
----------   1 root   admin      0 19 Jul 10:43 .file
drwxr-xr-x   2 root   wheel     64 19 Jul 10:43 .nofollow
drwxr-xr-x   2 root   wheel     64 19 Jul 10:43 .resolve
drwxr-xr-x   2 root   wheel     64 19 Jul 10:43 .vol
lrwxr-xr-x   1 root   admin     36 19 Jul 10:43 .VolumeIcon.icns -> System/Volumes/Data/.VolumeIcon.icns
drwxrwxr-x  15 root   admin    480  7 Aug 03:32 Applications
drwxr-xr-x@ 39 root   wheel   1248 19 Jul 10:43 bin
drwxrwxr-t   2 root   admin     64  4 May 10:09 cores
dr-xr-xr-x   4 root   wheel   4681  7 Aug 03:31 dev
lrwxr-xr-x@  1 root   wheel     11 19 Jul 10:43 etc -> private/etc
lrwxr-xr-x   1 root   wheel     25  7 Aug 03:32 home -> /System/Volumes/Data/home
drwxr-xr-x  66 root   wheel   2112  7 Aug 03:32 Library
drwxr-xr-x   3 root   wheel     96  5 Aug 10:26 opt
drwxr-xr-x   6 root   wheel    192  7 Aug 03:32 private
drwxr-xr-x@ 76 root   wheel   2432 19 Jul 10:43 sbin
drwxr-xr-x@ 10 root   wheel    320 19 Jul 10:43 System
lrwxr-xr-x@  1 root   wheel     11 19 Jul 10:43 tmp -> private/tmp
drwxr-xr-x   5 root   admin    160  7 Aug 03:31 Users
drwxr-xr-x@ 11 root   wheel    352 19 Jul 10:43 usr
lrwxr-xr-x@  1 root   wheel     11 19 Jul 10:43 var -> private/var
drwxr-xr-x   3 root   wheel     96  7 Aug 03:32 Volumes
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod +rwx protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod +rwx sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al
total 160
drwxr-xr-x  4 scifighost  staff    128  8 Aug 13:18 .
drwxr-xr-x  5 scifighost  staff    160  8 Aug 13:18 ..
-rwxr-xr-x@ 1 scifighost  staff      0  8 Aug 13:18 protein.fasta
-rwxr-xr-x@ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod ugo+rwx sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod ugo+rwx protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al
total 160
drwxr-xr-x  4 scifighost  staff    128  8 Aug 13:18 .
drwxr-xr-x  5 scifighost  staff    160  8 Aug 13:18 ..
-rwxrwxrwx@ 1 scifighost  staff      0  8 Aug 13:18 protein.fasta
-rwxrwxrwx@ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod u-x protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod u-x sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod g-wx sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod g-wx protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod o-wx protein.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % chmod o-wx sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al
total 160
```

```
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % ls -al
total 160
drwxr-xr-x  4 scifighost  staff    128  8 Aug 13:18 .
drwxr-xr-x  5 scifighost  staff    160  8 Aug 13:18 ..
-rw-r--r--@ 1 scifighost  staff      0  8 Aug 13:18 protein.fasta
-rw-r--r--@ 1 scifighost  staff  79551  8 Aug 13:18 sequence.fasta
scifighost@scifighosts-MacBook-Air BE623_labsession_1 % 
```