

```
Adalberts-MacBook-Air:cs301 gerald$ pwd
/Users/gerald/cs301
Adalberts-MacBook-Air:cs301 gerald$ ls
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ mkdir dir1
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1
Adalberts-MacBook-Air:cs301 gerald$ cd dir1
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$ echo hello
hello
Adalberts-MacBook-Air:dir1 gerald$ echo hello world
hello world
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ echo hello world > file1.txt
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt
Adalberts-MacBook-Air:dir1 gerald$ cat file1.txt
hello world
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ open file1.txt
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$ touch file2.txt
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt  file2.txt
Adalberts-MacBook-Air:dir1 gerald$ cat file2.txt
Adalberts-MacBook-Air:dir1 gerald$ touch file3.txt
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt  file2.txt  file3.txt
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
```

```
Adalberts-MacBook-Air:dir1 gerald$ man touch
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt file2.txt file3.txt
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$ man pwd
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ man ls
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ ls
file1.txt file2.txt file3.txt
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ mkdir dir2
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ cd dir2
Adalberts-MacBook-Air:dir2 gerald$
Adalberts-MacBook-Air:dir2 gerald$ pwd
/Users/gerald/cs301/dir1/dir2
Adalberts-MacBook-Air:dir2 gerald$ touch file1.txt
Adalberts-MacBook-Air:dir2 gerald$ ls
file1.txt
Adalberts-MacBook-Air:dir2 gerald$
Adalberts-MacBook-Air:dir2 gerald$
Adalberts-MacBook-Air:dir2 gerald$ pwd
/Users/gerald/cs301/dir1/dir2
Adalberts-MacBook-Air:dir2 gerald$
Adalberts-MacBook-Air:dir2 gerald$ cd ..
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$ cd ..
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1
Adalberts-MacBook-Air:cs301 gerald$ pwd
```

```
/Users/gerald/cs301
```

```
Adalberts-MacBook-Air:cs301 gerald$ tree .
```

```
.
├── dir1
│   ├── dir2
│   │   └── file1.txt
│   ├── file1.txt
│   ├── file2.txt
│   └── file3.txt
```

```
2 directories, 4 files
```

```
Adalberts-MacBook-Air:cs301 gerald$ touch file4.txt
```

```
Adalberts-MacBook-Air:cs301 gerald$ pwd
```

```
/Users/gerald/cs301
```

```
Adalberts-MacBook-Air:cs301 gerald$ tree .
```

```
.
├── dir1
│   ├── dir2
│   │   └── file1.txt
│   ├── file1.txt
│   ├── file2.txt
│   └── file3.txt
└── file4.txt
```

```
2 directories, 5 files
```

```
Adalberts-MacBook-Air:cs301 gerald$ echo CS301 > file4.txt
```

```
Adalberts-MacBook-Air:cs301 gerald$
```

```
Adalberts-MacBook-Air:cs301 gerald$ cat file4.txt
```

```
CS301
```

```
Adalberts-MacBook-Air:cs301 gerald$ cp file4.txt file5.txt
```

```
Adalberts-MacBook-Air:cs301 gerald$
```

```
Adalberts-MacBook-Air:cs301 gerald$
```

```
Adalberts-MacBook-Air:cs301 gerald$ ls
```

```
dir1      file4.txt  file5.txt
```

```
Adalberts-MacBook-Air:cs301 gerald$
```

```
Adalberts-MacBook-Air:cs301 gerald$ cat file5.txt
```

```
CS301
```

```
Adalberts-MacBook-Air:cs301 gerald$ cat file4.txt
```

```
CS301
```

```
Adalberts-MacBook-Air:cs301 gerald$ cat file4.txt file5.txt
CS301
CS301
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ vim file4.txt
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ cat file4.txt file5.txt
CS301 - Section 3
CS301
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ rm file5.txt
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1      file4.txt
Adalberts-MacBook-Air:cs301 gerald$ cat file5.txt
cat: file5.txt: No such file or directory
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1      file4.txt
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ mkdir dir3
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1      dir3      file4.txt
Adalberts-MacBook-Air:cs301 gerald$ rmdir dir3
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1      file4.txt
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ rm dir1
rm: dir1: is a directory
Adalberts-MacBook-Air:cs301 gerald$ rmdir dir1
rmdir: dir1: Directory not empty
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$
```

```
Adalberts-MacBook-Air:cs301 gerald$ pwd
/Users/gerald/cs301
Adalberts-MacBook-Air:cs301 gerald$ ls
dir1      file4.txt
Adalberts-MacBook-Air:cs301 gerald$ cat file4.txt
CS301 - Section 3
Adalberts-MacBook-Air:cs301 gerald$ cat /Users/gerald/cs301/file4.txt
CS301 - Section 3
Adalberts-MacBook-Air:cs301 gerald$
Adalberts-MacBook-Air:cs301 gerald$ cd dir1/
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ cat /Users/gerald/cs301/file4.txt
CS301 - Section 3
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ cat file1.txt
hello world
Adalberts-MacBook-Air:dir1 gerald$ cat
/Users/gerald/cs301/dir1/file1.txt
hello world
Adalberts-MacBook-Air:dir1 gerald$ cat /Users/gerald/cs301/file4.txt
CS301 - Section 3
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$ cat file4.txt
cat: file4.txt: No such file or directory
Adalberts-MacBook-Air:dir1 gerald$ pwd
/Users/gerald/cs301/dir1
Adalberts-MacBook-Air:dir1 gerald$ ls
dir2      file1.txt  file2.txt  file3.txt
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
Adalberts-MacBook-Air:dir1 gerald$
```