

Shell Novice – Lesson 1: Introducing the Shell

Commands Practiced:

`whoami`, `pwd`, `ls`

Output Example:

```
$ whoami
hande
$ pwd
/Users/hande/shell-novice-data/data-shell
$ ls
creatures data molecules north-pacific-gyre
```

Shell Novice – Lesson 2: Navigating Files and Directories

Commands Practiced:

`cd`, `ls`, `pwd`, `ls -F`, `ls -a`

Sample Terminal Output:

```
$ cd molecules
$ pwd
/Users/hande/shell-novice-data/data-shell/molecules
$ cd ..
$ ls -F
creatures/ data/ molecules/ north-pacific-gyre/
```

Lesson 3: Working with Files and Directories

Commands Practiced:

`mkdir`, `cp`, `mv`, `rm`, `rmdir`

Sample Terminal Output:

```
$ mkdir my-notes
$ cp creatures/basilisk.dat my-notes/
$ mv my-notes/basilisk.dat my-notes/notes.txt
$ rm my-notes/notes.txt
$ rmdir my-notes
```

Shell Novice – Lesson 4: Pipes and Filters

Commands Practiced:

`head`, `tail`, `sort`, `uniq`, `wc`, `grep`, `|`

Sample Terminal Output:

```
$ head animals.txt
aardvark
baboon
...
```

```
$ grep "rabbit" animals.txt
rabbit
rabbit
```

```
$ sort animals.txt | uniq
aardvark
baboon
cat
rabbit
```

Shell Novice – Lesson 5: Loops

Commands Practiced:

`for`, `do`, `done`, `echo`, `wc -l`

Sample Terminal Output:

```
$ for file in *.pdb
> do
> wc -l $file
> done
20 cubane.pdb
15 ethane.pdb
10 methane.pdb
```

Shell Novice – Lesson 6: Shell Scripts

Commands Practiced:

`nano`, `chmod +x`, `./script.sh`, `$1`

Sample Terminal Output:

```
$ ./line-count.sh
20 cubane.pdb
15 ethane.pdb
10 methane.pdb
```

```
$ ./single-count.sh ethane.pdb
15 ethane.pdb
```

Shell Novice – Lesson 7: Finding Things

Commands Practiced:

`find, -name, -type, grep, |, wc -l`

Sample Terminal Output:

```
$ find . -name "*.pdb"
./molecules/cubane.pdb
./molecules/ethane.pdb
./molecules/methane.pdb
```

```
$ grep "H" *.pdb | wc -l
42
```

Shell Novice – Lesson 8: Conclusion

Summary:

I practiced everything I learned – navigation, file operations, loops, scripts, search.

Final Task Output Example:

```
cubane.pdb has 20 lines
ethane.pdb has 18 lines
```