UNIX Shell SW Carpentry

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B shalpurpor-socrophis:- x + v

Ashillandron-socrophis:- do besktop

Ashillandron-socrophis:- do shall-lesson-data

Ashillandron-socrophis:- do shall-lesson-data

-bash: cd: exercise-data; No such file or directory

Ashillandron-socrophis:- posstop/shall-lesson-data$ cd

exercise-data/ north-pacific-gypre/

Ashillandron-socrophis:- posstop/shall-lesson-data$ cd

exercise-data/ north-pacific-gypre/

Ashillandron-socrophis:- posstop/shall-lesson-data* cercise-data$

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data$ ls-F

-ls-F:- command not found

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data$ ls-F

alkanes/ animal-counts/ creatures/ numbers.txt writing/

Ashillandron-socrophis:- posstop/shall-lesson-data* cercise-data$ cd.

Ashillandron-socrophis:- posstop/shall-lesson-data$ is-F-

ashillandron-socrophis:- posstop/shall-lesson-data$ cd.

Ashillandron-socrophis:- cd. -/Desktop/shall-lesson-data$ cd.

Ashillandron-socrophis:- posstop/shall-lesson-data$ cd.

Ashillandron-socrophis:- posstop/shall-lesson-data$ cd.

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data/writing$ ls -F

LittleNomen.tx hailu.txt

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data/writing$ ls -F

LittleNomen.tx hailu.txt thesis.

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data/writing$ ls -F

LittleNomen.txt hailu.txt thesis.

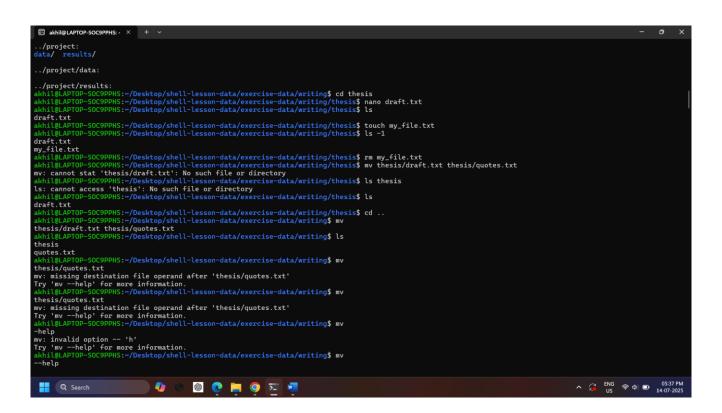
Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data/writing$ ls -F

LittleNomen.txt hailu.txt thesis.

Ashillandron-socrophis:- posstop/shall-lesson-data/exercise-data/writing$ ls -F

LittleNomen.txt hailu.txt thesis.

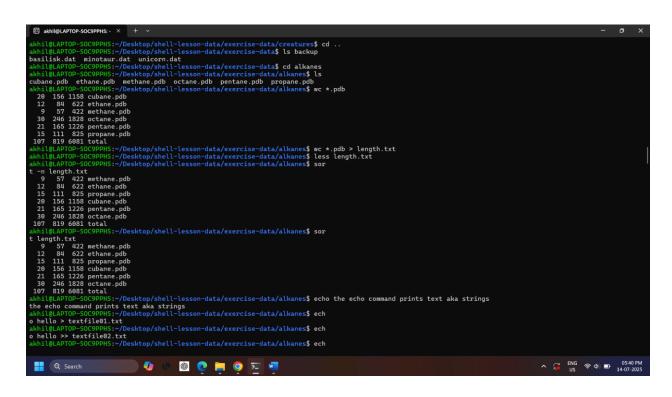
Ashillandron-socrophis:- posstop/shal
```

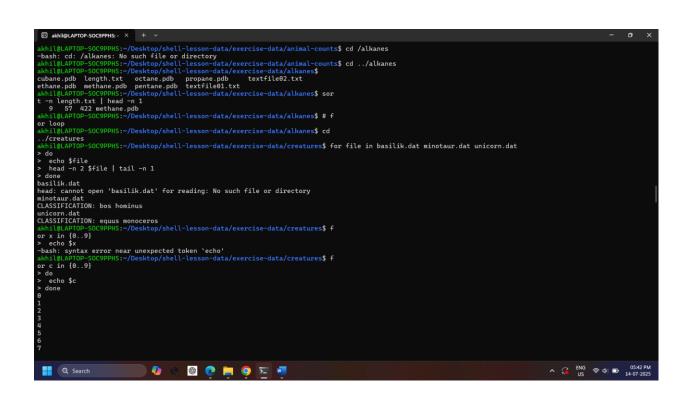


```
or available locally via: info '(coreutils) my invocation'
shillalAPTP-SOCOPPHS:-/Desktop/shell-lesson-data/exercise-data/mriting$ swy thesis/quotes.txt .

5: command not found
shillalAPTP-SOCOPPHS:-/Desktop/shell-lesson-data/exercise-data/mriting$ swy
thesis/quotes.txt .

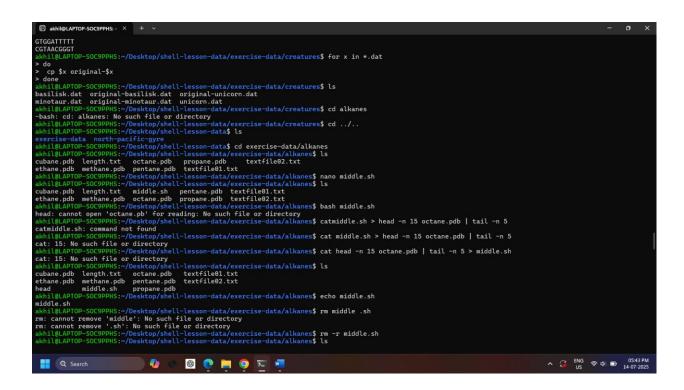
### AND PROCESSORY Control of the state of
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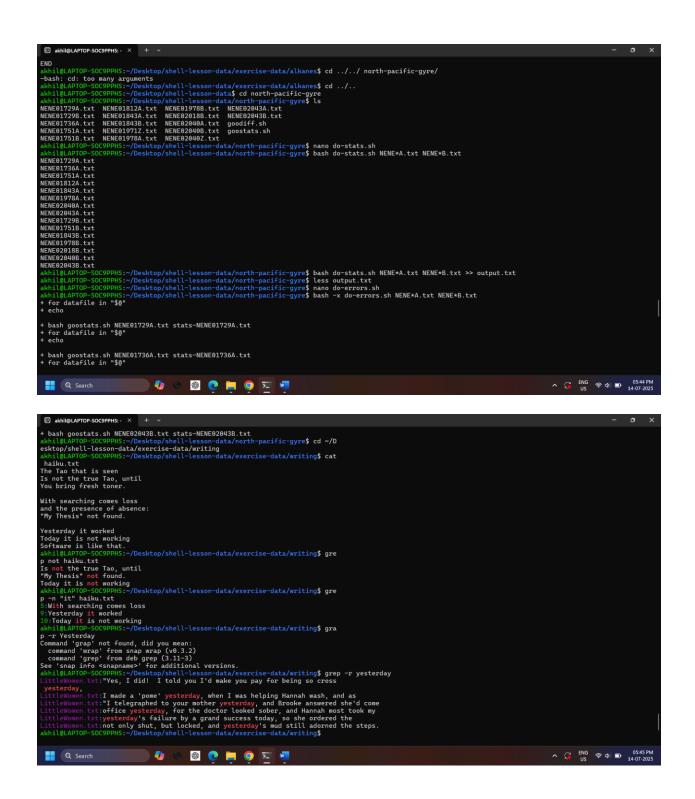




```
    akhil@LAPTOP-SOC9PPHS: ⋅ × + ∨

s
basilisk.dat minotaur.dat unicorn.dat
akhil@LAPTOP-SOC9PPHS:~/Desktop/shell-lesson-data/exercise-data/creatures$ f
or x in *.dat
or x in *.dat
> do
> echo $x
> head -n 100 $x | tail -n 20
> done
basilisk.dat
CGCTACCGAA
AAGGGTCGCGA
 CAAGTGTTCC
 CAAGTGTTCC
CGGGACAATA
GTTCTGCTAA
GATAAGTATG
TGCCGACCTTA
CCCGACCGTC
TAGGTTATAA
 CTTCACTGTA
 GAGGTGTACA
AGGATCCGTT
GCGCGGGCGG
CAGTCTATGT
TTTTCGACAC
TGGACTGCTT
CCCTTTGAGG
GTGGATTTTT
  GTAACGGGT
CGTAACGGGT
minotaur.dat
GGTTGGACCG
AGTGAACGAA
GCGATTGATG
CCCAGTATTG
 GTTTCGGGTC
CCACCAGGAA
CAATGTTGGA
CTTTAGCACG
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```





History of Commands and Codes used

```
1 pwd
 2 /user/Desktop/git-tutorial
3 cd~ Desktop
 4 cd ~/Desktop
 5 /user/akhil/Desktop
 6 pwd
 7
    ls
 8 mkdir trial
 9 ls
10 touch t1.txt
11 echo 'hello world'
12 clear
13 pwd
14 ls
15 pwd
16 cd
17 ls
18 cd trial
19 ls
20 pwd
21 cd ..
22 pwd
23 cd ~/trial
24 pwd
25 touch journa.txt
26 ls
27 wc journa.txt
28 cat journa.txt
29 echo 'hello, this is m first linx file' > journa.txt
30 cat journa.txt
31 nano journa.txt
32 cat journa.txt
33 nano jaourna txt
34 cat jaourna.txt
35 ls
36 clear
37 cd ..
38 pwd
39 cclear
40 clear
40 Ctear
41 %% akhil
42 clear
43 ## akhil
44 pwd
45 clear
46 mkdir foo_dir
47 cd foo_di
48 ls
49 cd ~/ foo_die
50 cd~/ foo_dir
51 pwd
52 ls
53 cd ~/foo_dir
54 touch text.txt
55 echo 'Hello, world' > text.txt
56 cat text.txt
57 cp text.txt text_copy.txt
58 ls
59 mkdir foo_sub_dir
60 cd ~/ foo_sub_dir
61 cd foo_sub_dir
63 mv text_copy.txt foo_sub_dir
64 cd foo_sub_dir
```

```
65 ls
 66 clear
67 cd ..
68 cd ~
 69 pwd
 70 ls
 71 ls -F Desktop
 72
    ls
73 ls -F Desktop / shell-lesson-data
 74 ls -F Desktop
75 cd Desktop
 76 cd shell-lesson-data
 77 cd excercise-data
 78 cd exercise-data
79 pwd
80 ls-F
81 ls -F
82 cd ..
83 ls -F -a
84 cd
85 cd ~/Desktop/shell-lesson-data
87 cd ~/Desktop/shell-lesson-data
88 cd exercise-data/writing/
89 ls -F
90 mkdir thesis #creating a new directory
91 ls -F
92 ls -F thesis
93 mkdir -p ../project/data ../project/results
94 ls - FR ../project
95 ls -FR ../project
96 cd thesis
97 nano draft.txt
98 ls
99 touch my_file.txt
100 ls -1
101 rm my_file.txt
    mv thesis/draft.txt thesis/quotes.txt
102
103
    ls thesis
104 ls
105 cd ..
106 mv thesis/draft.txt thesis/quotes.txt
107
    ls thesis
108 mv thesis/quotes.txt
109
    mv -help
110
    mv --help
    $ mv thesis/quotes.txt .
111
    ls thesis
112
113
    cp quotes.txt thesis/quotations.txt
114
115
    ls thesis
116 cd ..
117 mkdir backup
118 ls
119 cp creatures/minotaur.dat creatures/unicorn.dat backup/
120 cd creatures
121 ls -F
122 cp basilisk.dat minotaur.dat backup/
123 ls excercise-data/backup
124 cd ..
125 ls backup
126 cd alkanes
127
128 wc *.pdb
```

```
129 wc *.pdb > length.txt
 130
      less length.txt
 131 sort -n length.txt
 132 sort length.txt
 133 echo the echo command prints text aka strings
 134
      echo hello > textfile01.txt
 135 echo hello >> textfile02.txt
 136 ech
 137 o hello >> textfile02.txt
 138 echo hello >> textfile02.txt
 139 cat textfile02.txt
 140 echo hello > textfile01.txt
 141 cat textfile01.txt
 142 cd..
 143 cd ..
 144 cd animal-counts
 145 ls
 146 head -n 3 animal.csv > animals-subset.csv
 147 cd animal.csv
 148 c .. / alkanes
 149 cd /alkanes
 150 cd ../alkanes
 151 ls
 152 sort -n length.txt | head -n 1
 153 # for loop
 154 cd ../creatures
 155 for file in basilik.dat minotaur.dat unicorn.dat; do echo $file; head
-n 2 $file | tail -n 1; done
 156 for x in {0..9}; echo $x
 157 for c in {0..9}; do echo $c; done
 158
 159 for x in *.dat; do echo $x; head -n 100 $x | tail -n 20; done
 160 for x in *.dat; do cp $x original-$x; done
 161
 162
      cd alkanes
 163
      cd ../..
 164
      ls
      cd exercise-data/alkanes
 165
 166
      nano middle.sh
 167
 168
 169
      bash middle.sh
      catmiddle.sh > head -n 15 octane.pdb | tail -n 5
      cat middle.sh > head -n 15 octane.pdb | tail -n 5
 171
 172
      cat head -n 15 octane.pdb | tail -n 5 > middle.sh
 173
 174
      echo middle.sh
 175
      rm middle .sh
 176
      rm -r middle.sh
 177
 178
     nano middle.sh
     bash middle.sh
 179
 180 nano middle.sh
 181 nao middle.sh
 182 nano middle.sh
 183 bash methane.pdb
 184
     bash propan.pdb
 185
     bash propane.pdb
 186
     bash middle.sh propane.pdb
 187
      cd ../../ north-pacific-gyre/
 188 cd ../..
 189
     cd north-pacific-gyre
 190
 191
     nano do-stats.sh
```

```
bash do-stats.sh NENE*A.txt NENE*B.txt
bash do-stats.sh NENE*A.txt NENE*B.txt >> output.txt
less output.txt
nano do-errors.sh
```

- 196 bash -x do-errors.sh NENE*A.txt NENE*B.txt
- 197 cd ~/Desktop/shell-lesson-data/exercise-data/writing 198 cat haiku.txt
- 199 grep not haiku.txt
- 200 grep -n "it" haiku.txt
- 201 grap -r Yesterday
- 202 grep -r yesterday
- 203 cd 204 histroy > session.txt
- 205 echo \$0
- 206 type history
- 207 history > my_bash_history.txt