

## Command Line: Working With Data Files Workshop Handout

curl	1 curl -L -O https://github.com/nuitrcs/bash_hpc_workshops/raw/master/shell-novice-data.tar
tar	2 tar -xvf shell-novice-data.tar
	3 tar -cvfz shell-novice-data.tar.gz shell-novice-data
	4 cd shell-novice-data/working-with-data/north-pacific-gyre/2012-07-03
sed -n input ranges	5 sed -n '1,3p' lines.txt
s/pattern/replace	6 echo ' hello world!'   sed -re 's/hello/bye/'
Rename word in multiple files	7 sed -i 's/0/NULL/g' *.txt
print csv column	8 awk -F "," '{print \$3}' file.csv
sum csv column	9 awk -F"," '{print;x+=\$3}END{print "Sum = " x}' file.csv

**Note:** Line numbers are inserted for the ease of referring to each command. Indented are the lines that should be typed in the file.

using ssh	10 ssh -X tempuser40@quest.it.northwestern.edu
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```
11      ls
12      pwd
13      mkdir <netid>
scp 14 scp goostats tempuser40@quest.it.northwestern.edu:<netid>
15      ls
16 cd ../../../../
17 scp -r Wdata tempuser40@quest.it.northwestern.edu:<netid>
18      ls
19      cp -r Wdata from_remote_dir
20 scp -r tempuser40@quest.it.northwestern.edu:from_remote_dir local_dir
21 ls local_dir
```

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