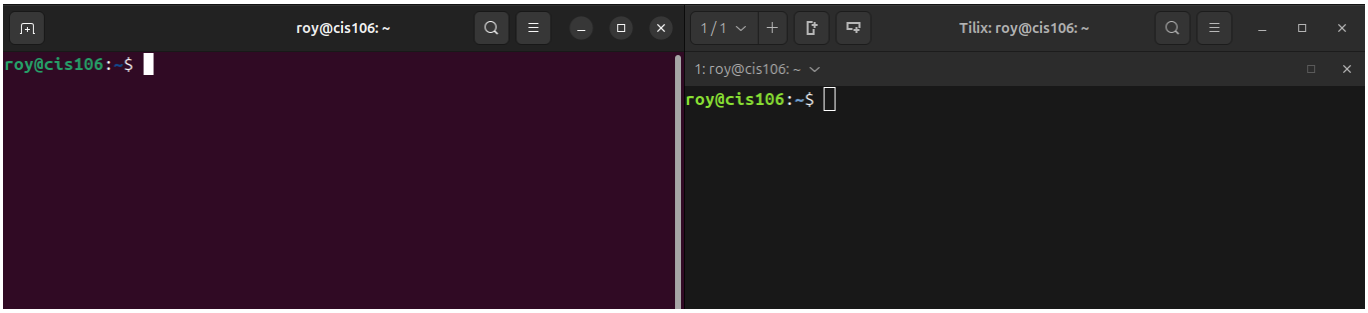
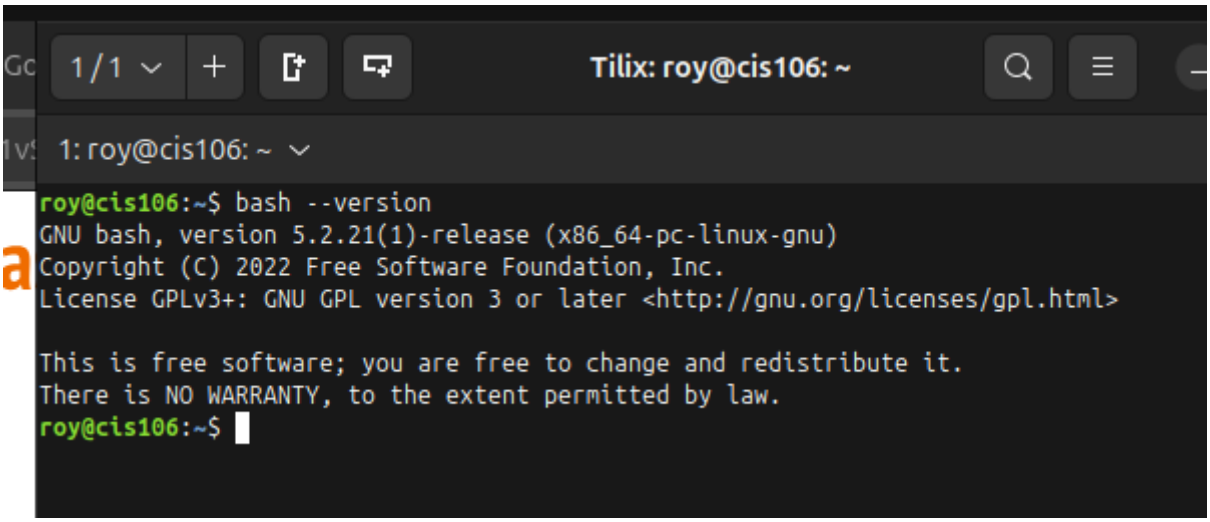
# Week Report 3

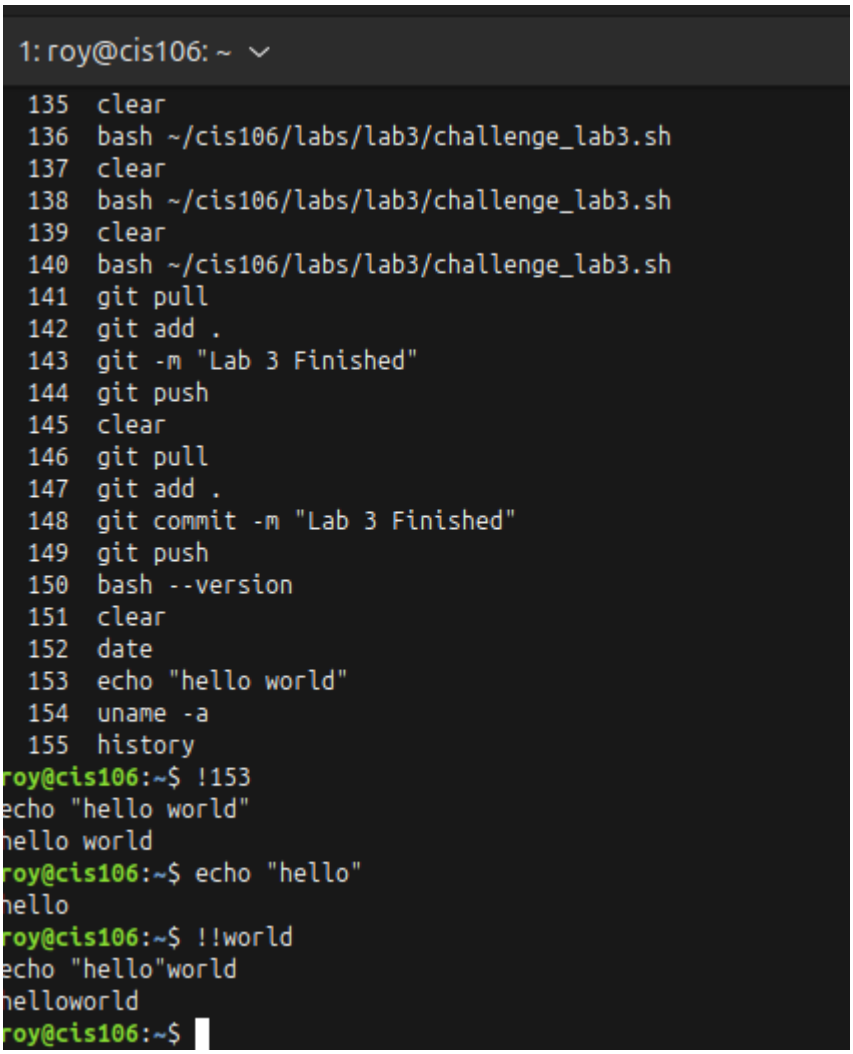
## Completed work for week 3

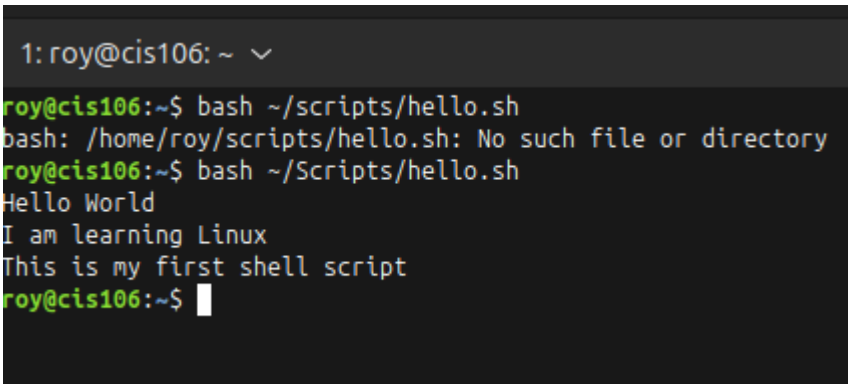
Lab3 Notes3

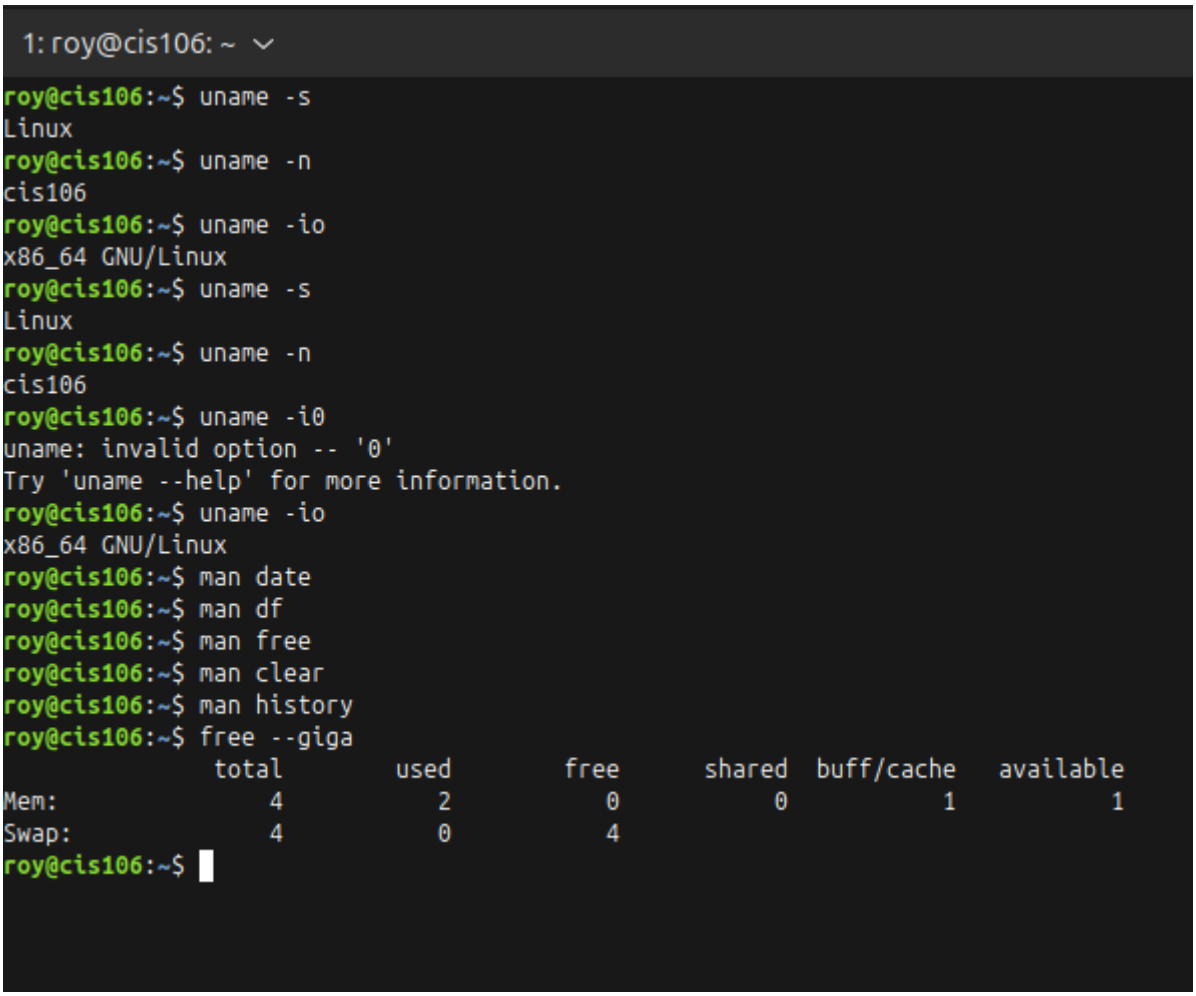
## Practice

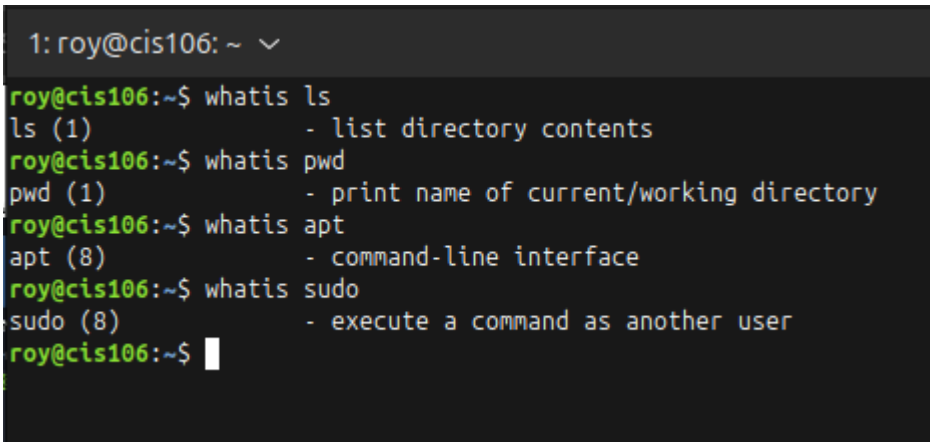


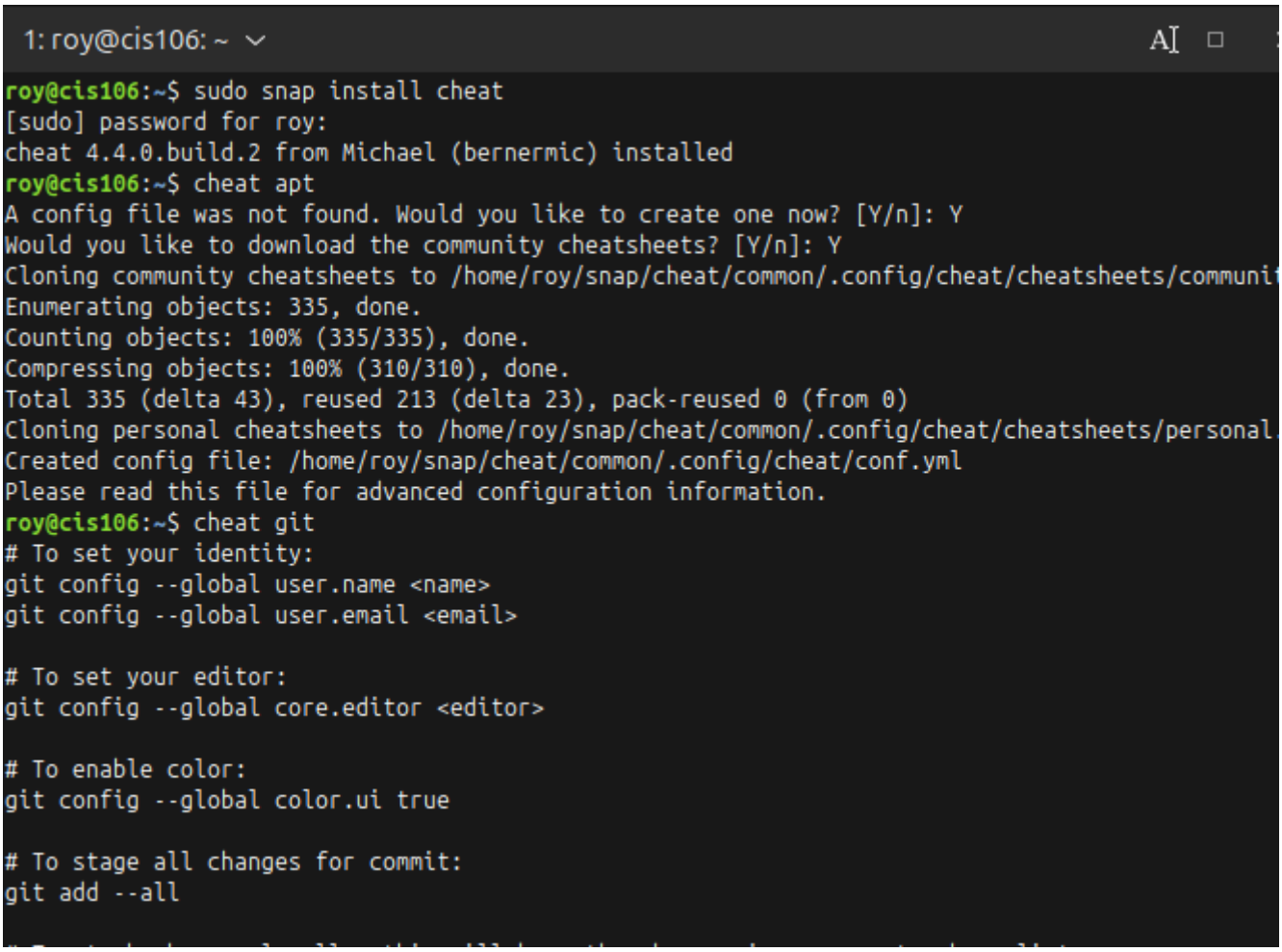




1: roy@cis106: ~
135 clear
136 bash ~/cis106/labs/lab3/challenge_lab3.sh
137 clear
138 bash ~/cis106/labs/lab3/challenge_lab3.sh
139 clear
140 bash ~/cis106/labs/lab3/challenge_lab3.sh
141 git pull
142 git add .
143 git -m "Lab 3 Finished"
144 git push
145 clear
146 git pull
147 git add .
148 git commit -m "Lab 3 Finished"
149 git push
150 bash --version
151 clear
152 date
153 echo "hello world"
154 uname -a
155 history
roy@cis106:~$ !153
echo "hello world"
hello world
roy@cis106:~$ echo "hello"
hello
roy@cis106:~$ !!world
echo "hello"world
helloworld
roy@cis106:~$

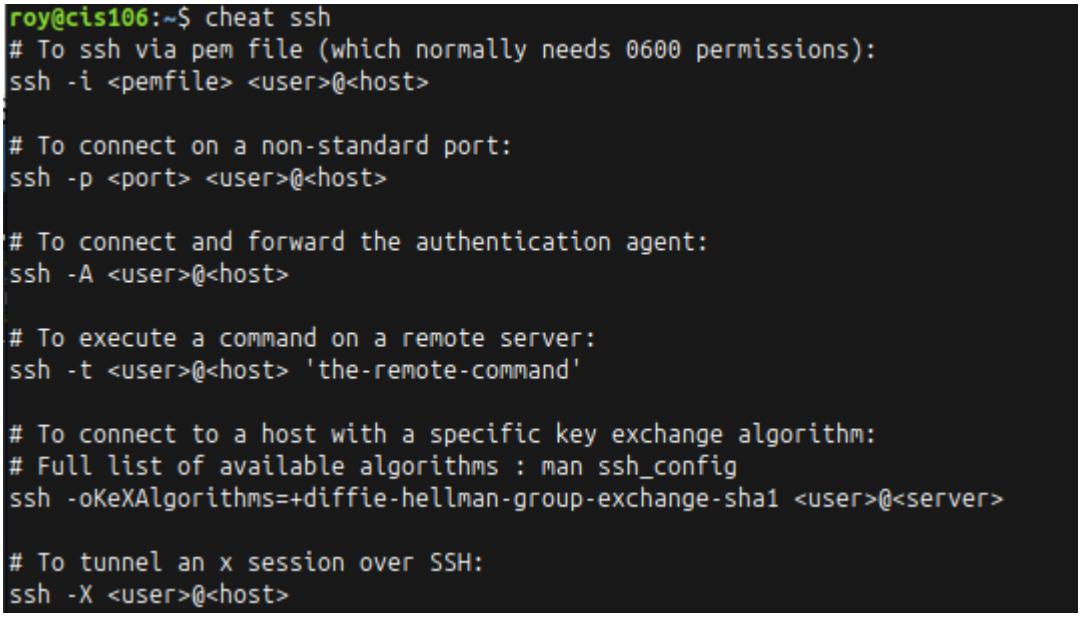

1: roy@cis106: ~
roy@cis106:~$ bash ~/scripts/hello.sh
bash: /home/roy/scripts/hello.sh: No such file or directory
roy@cis106:~$ bash ~/Scripts/hello.sh
Hello World
I am learning Linux
This is my first shell script
roy@cis106:~$


1: roy@cis106: ~
roy@cis106:~$ uname -s
Linux
roy@cis106:~$ uname -n
cis106
roy@cis106:~$ uname -io
x86_64 GNU/Linux
roy@cis106:~$ uname -s
Linux
roy@cis106:~$ uname -n
cis106
roy@cis106:~$ uname -i0
uname: invalid option -- '0'
Try 'uname --help' for more information.
roy@cis106:~$ uname -io
x86_64 GNU/Linux
roy@cis106:~$ man date
roy@cis106:~$ man df
roy@cis106:~$ man free
roy@cis106:~$ man clear
roy@cis106:~$ man history
roy@cis106:~$ free --giga
total used free shared buff/cache available
Mem: 4 2 0 0 1 1
Swap: 4 0 4
roy@cis106:~$

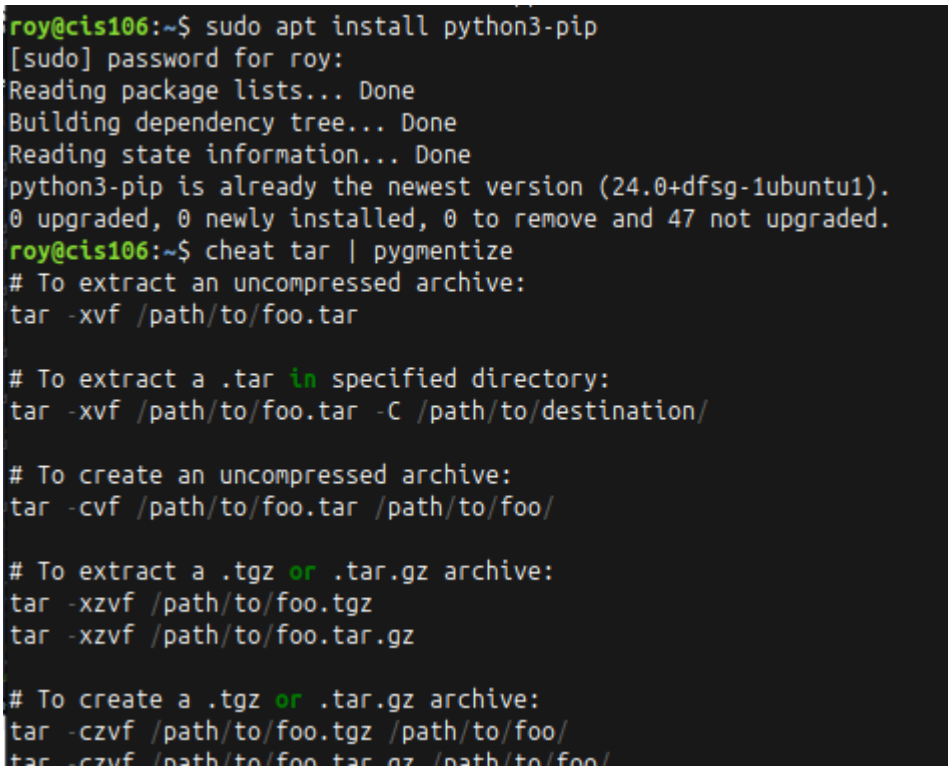

1: roy@cis106: ~
roy@cis106:~$ whatis ls
ls (1) - list directory contents
roy@cis106:~$ whatis pwd
pwd (1) - print name of current/working directory
roy@cis106:~$ whatis apt
apt (8) - command-line interface
roy@cis106:~$ whatis sudo
sudo (8) - execute a command as another user
roy@cis106:~$



```
1: roy@cis106: ~
roy@cis106:~$ sudo snap install cheat
[sudo] password for roy:
cheat 4.4.0.build.2 from Michael (bernermic) installed
roy@cis106:~$ cheat apt
A config file was not found. Would you like to create one now? [Y/n]: Y
Would you like to download the community cheatsheets? [Y/n]: Y
Cloning community cheatsheets to /home/roy/snap/cheat/common/.config/cheat/cheatsheets/communit
Enumerating objects: 335, done.
Counting objects: 100% (335/335), done.
Compressing objects: 100% (310/310), done.
Total 335 (delta 43), reused 213 (delta 23), pack-reused 0 (from 0)
Cloning personal cheatsheets to /home/roy/snap/cheat/common/.config/cheat/cheatsheets/personal
Created config file: /home/roy/snap/cheat/common/.config/cheat/conf.yml
Please read this file for advanced configuration information.
roy@cis106:~$ cheat git
# To set your identity:
git config --global user.name <name>
git config --global user.email <email>

# To set your editor:
git config --global core.editor <editor>

# To enable color:
git config --global color.ui true

# To stage all changes for commit:
git add --all
```



```
roy@cis106:~$ cheat ssh
# To ssh via pem file (which normally needs 0600 permissions):
ssh -i <pemfile> <user>@<host>

# To connect on a non-standard port:
ssh -p <port> <user>@<host>

# To connect and forward the authentication agent:
ssh -A <user>@<host>

# To execute a command on a remote server:
ssh -t <user>@<host> 'the-remote-command'

# To connect to a host with a specific key exchange algorithm:
# Full list of available algorithms : man ssh_config
ssh -oKeXAlgorithms=+diffie-hellman-group-exchange-sha1 <user>@<server>

# To tunnel an x session over SSH:
ssh -X <user>@<host>
```


roy@cis106:~$ sudo apt install python3-pip
[sudo] password for roy:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3-pip is already the newest version (24.0+dfsg-1ubuntu1).
0 upgraded, 0 newly installed, 0 to remove and 47 not upgraded.
roy@cis106:~$ cheat tar | pygmentize
# To extract an uncompressed archive:
tar -xvf /path/to/foo.tar
# To extract a .tar in specified directory:
tar -xvf /path/to/foo.tar -C /path/to/destination/
# To create an uncompressed archive:
tar -cvf /path/to/foo.tar /path/to/foo/
# To extract a .tgz or .tar.gz archive:
tar -xzvf /path/to/foo.tgz
tar -xzvf /path/to/foo.tar.gz
# To create a .tgz or .tar.gz archive:
tar -czvf /path/to/foo.tgz /path/to/foo/