Question 0: Navigate to your home directory

Answer: $cd

Question 1. Create a directory in your home directory called projects. In the projects

directory, create nine empty fi les that are named house1, house2, house3, and

so on to house9. Assuming there are lots of other fi les in that directory, come up

with a single argument to ls that would list just those nine files.

Answer: ubuntub2405065@CoseSystem:~$ mkdir ~/projects/

ubuntub2405065@CoseSystem:~$ mkdir ~/projects/house{1,2,3,4,5,6,7,8,9}

ubuntub2405065@CoseSystem:~$ ls ~/projects/house[1-9]

```
ubuntub2405065@CoseSystem:~$ mkdir ~/projects/
ubuntub2405065@CoseSystem:~$ mkdir ~/projects/house{1,2,3,4,5,6,7,8,9}
ubuntub2405065@CoseSystem:~$ ls ~/projects/house[1-9]
/home/ubuntub2405065/projects/house1:

/home/ubuntub2405065/projects/house2:

/home/ubuntub2405065/projects/house3:

/home/ubuntub2405065/projects/house4:

/home/ubuntub2405065/projects/house5:

/home/ubuntub2405065/projects/house6:

/home/ubuntub2405065/projects/house7:

/home/ubuntub2405065/projects/house8:

/home/ubuntub2405065/projects/house9:
```

Question 2. Make the $HOME/projects/houses/doors/ directory path. Create the following

empty fi les within this directory path (try using absolute and relative paths from

your home directory):

$HOME/projects/houses/bungalow.txt

$HOME/projects/houses/doors/bifold.txt

$HOME/projects/outdoors/vegetation/landscape.txt

Answer:

ubuntub2405065@CoseSystem:~$ mkdir -p ~/projects/houses/doors/

ubuntub2405065@CoseSystem:~$ touch ~/projects/houses/bungalow.txt

ubuntub2405065@CoseSystem:~$ touch ~/projects/houses/doors/bifold.txt

ubuntub2405065@CoseSystem:~$ mkdir -p ~/projects/outdoors/vegetation/

ubuntub2405065@CoseSystem:~$ touch ~/projects/outdoors/vegetation/landscape.txt

ubuntub2405065@CoseSystem:~$ ls -R ~/projects/

```
ubuntub2405065@CoseSystem:~$ mkdir -p ~/projects/houses/doors/
ubuntub2405065@CoseSystem:~$ touch ~/projects/houses/bungalow.txt
ubuntub2405065@CoseSystem:~$ touch ~/projects/houses/doors/bifold.txt
ubuntub2405065@CoseSystem:~$ mkdir -p ~/projects/outdoors/vegetation/
ubuntub2405065@CoseSystem:~$ touch ~/projects/outdoors/vegetation/landscape.txt
ubuntub2405065@CoseSystem:~$ ls -R ~/projects/
/home/ubuntub2405065/projects/:
house1  house2  house3  house4  house5  house6  house7  house8  house9  houses  outdoors

/home/ubuntub2405065/projects/house1:

/home/ubuntub2405065/projects/house2:

/home/ubuntub2405065/projects/house3:

/home/ubuntub2405065/projects/house4:

/home/ubuntub2405065/projects/house5:

/home/ubuntub2405065/projects/house6:

/home/ubuntub2405065/projects/house7:

/home/ubuntub2405065/projects/house8:

/home/ubuntub2405065/projects/house9:

/home/ubuntub2405065/projects/houses:
bungalow.txt  doors

/home/ubuntub2405065/projects/houses/doors:
bifold.txt

/home/ubuntub2405065/projects/outdoors:
vegetation

/home/ubuntub2405065/projects/outdoors/vegetation:
landscape.txt
```

Question 3. Copy the fi les house1 and house5 to the $HOME/projects/houses/ directory.

Answer:

ubuntub2405065@CoseSystem:~$ cp -r ~/projects/house[1,5] ~/projects/houses/

```
ubuntub2405065@CoseSystem:~$ cp -r ~/projects/house[1,5] ~/projects/houses/
ubuntub2405065@CoseSystem:~$
```

Question 4. Recursively copy the /usr/share/doc/initscripts* directory to the $HOME/

projects/ directory. Maintain the current date/time stamps and permissions.

Answer:

ubuntub2405065@CoseSystem:~$ mkdir -p ~/usr/share/doc/

ubuntub2405065@CoseSystem:~$ sudo cp -p ~/usr/share/doc/hello.txt ~/projects

```
ubuntub2405065@CoseSystem:~$ mkdir -p ~/usr/share/doc/
ubuntub2405065@CoseSystem:~$ touch ~/usr/share/doc/hello.txt
ubuntub2405065@CoseSystem:~$ cp -p ~/usr/share/doc/hello.txt ~/projects
cp: cannot stat '/home/ubuntub2405065/projects/hello.txt': Permission denied
ubuntub2405065@CoseSystem:~$ sudo cp -p ~/usr/share/doc/hello.txt  ~/projects/
ubuntub2405065@CoseSystem:~$ |
```

Question 5. Recursively list the contents of the $HOME/projects/ directory. Pipe the output

to the less command so you can page through the output.

Answer:

ubuntub2405065@CoseSystem:~$ ls -R ~/projects/ | less

```
/home/ubuntub2405065/projects/:
house1
house2
house3
house4
house5
house6
house7
house8
house9
houses
outdoors

/home/ubuntub2405065/projects/house1:

/home/ubuntub2405065/projects/house2:

/home/ubuntub2405065/projects/house3:

/home/ubuntub2405065/projects/house4:

/home/ubuntub2405065/projects/house5:

/home/ubuntub2405065/projects/house6:

/home/ubuntub2405065/projects/house7:

/home/ubuntub2405065/projects/house8:

/home/ubuntub2405065/projects/house9:

/home/ubuntub2405065/projects/houses:
bungalow.txt
doors
house1
house5

/home/ubuntub2405065/projects/houses/doors:
bifold.txt

/home/ubuntub2405065/projects/houses/house1:

/home/ubuntub2405065/projects/houses/house5:

/home/ubuntub2405065/projects/outdoors:
vegetation

/home/ubuntub2405065/projects/outdoors/vegetation:
landscape.txt
~
```

Question 6. Remove the fi les house6, house7, and house8 without being prompted.

Answer:

ubuntub2405065@CoseSystem:~$ rm -f -R ~/projects/house[6-8]

```
ubuntub2405065@CoseSystem:~$ rm -f -R ~/projects/house[6-8]
ubuntub2405065@CoseSystem:~$ |
```

Question 7. Move house3 and house4 to the $HOME/projects/houses/doors directory.

Answer:

ubuntub2405065@CoseSystem:~$ mv ~/projects/house[3,4] ~/projects/houses/doors/

```
ubuntub2405065@CoseSystem:~$ mv ~/projects/house[3,4] ~/projects/houses/doors/
ubuntub2405065@CoseSystem:~$
```

Question 8. Remove the $HOME/projects/houses/doors directory and its contents.

Answer:

ubuntub2405065@CoseSystem:~$ rm -R ~/projects/houses/doors/

```
ubuntub2405065@CoseSystem:~$ rm -R ~/projects/houses/doors/
ubuntub2405065@CoseSystem:~$
```

Question 9. Change the permissions on the $HOME/projects/house2 fi le so it can be read and written by the user who owns the fi le, only read by the group, and have no permission for others.

Answer:

ubuntub2405065@CoseSystem:~$ chmod u=rw,g=r,o= ~/projects/house2/

```
ubuntub2405065@CoseSystem:~$ chmod u=rw,g=r,o= ~/projects/house2/
ubuntub2405065@CoseSystem:~$
```

Question 10. Recursively change permissions of the $HOME/projects/ directory so nobody has write permission to any fi les or directory beneath that point in the fi lesystem.

Answer:

ubuntub2405065@CoseSystem:~$ sudo chmod -R 444 ~/projects/

```
ubuntub2405065@CoseSystem:~$ sudo chmod -R 444 ~/projects/
[sudo] password for ubuntub2405065:
ubuntub2405065@CoseSystem:~$
```