

Maryam Taherzadeh
19529
Cs571-cloud computing

35- Create a new directory in “/home/pi” called:

/home/pi/ Exercise

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cd Documents
maryamtaherzadeh@Maryams-MacBook-Pro Documents % mkdir home
maryamtaherzadeh@Maryams-MacBook-Pro Documents % cd home
maryamtaherzadeh@Maryams-MacBook-Pro home % mkdir pi
maryamtaherzadeh@Maryams-MacBook-Pro home % cd pi
maryamtaherzadeh@Maryams-MacBook-Pro pi % mkdir exercise
maryamtaherzadeh@Maryams-MacBook-Pro pi % cd exercise
maryamtaherzadeh@Maryams-MacBook-Pro exercise % pwd
/Users/maryamtaherzadeh/Documents/home/pi/exercise
maryamtaherzadeh@Maryams-MacBook-Pro exercise %
```

- Create two new sub-directories within “exercises” called”:

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cd Documents
maryamtaherzadeh@Maryams-MacBook-Pro Documents % cd home
maryamtaherzadeh@Maryams-MacBook-Pro home % cd pi
maryamtaherzadeh@Maryams-MacBook-Pro pi % cd exercise
maryamtaherzadeh@Maryams-MacBook-Pro exercise % mkdir python
maryamtaherzadeh@Maryams-MacBook-Pro exercise % mkdir unix
maryamtaherzadeh@Maryams-MacBook-Pro exercise % mkdir temp
maryamtaherzadeh@Maryams-MacBook-Pro exercise % ls -ltr
total 16
drwxr-xr-x  4 maryamtaherzadeh  staff   128 Jan 24 12:00 ..
-rw-r--r--@ 1 maryamtaherzadeh  staff  6148 Jan 24 12:01 .DS_Store
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 python
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 unix
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:02 temp
drwxr-xr-x  6 maryamtaherzadeh  staff   192 Jan 24 12:02 .
maryamtaherzadeh@Maryams-MacBook-Pro exercise %
```

- Delete temp sub-directory

```
maryamtaherzadeh@Maryams-MacBook-Pro exercise % ls -ltr
total 16
drwxr-xr-x  4 maryamtaherzadeh  staff   128 Jan 24 12:00 ..
-rw-r--r--@ 1 maryamtaherzadeh  staff  6148 Jan 24 12:01 .DS_Store
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 python
```

```

drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 unix
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:02 temp
drwxr-xr-x  6 maryamtaherzadeh  staff   192 Jan 24 12:02 .
maryamtaherzadeh@Maryams-MacBook-Pro exercise % rm -rf temp
maryamtaherzadeh@Maryams-MacBook-Pro exercise % ls -altr
total 16
drwxr-xr-x  4 maryamtaherzadeh  staff   128 Jan 24 12:00 ..
-rw-r--r--@ 1 maryamtaherzadeh  staff  6148 Jan 24 12:01 .DS_Store
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 python
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 unix
drwxr-xr-x  5 maryamtaherzadeh  staff   160 Jan 24 12:03 .
maryamtaherzadeh@Maryams-MacBook-Pro exercise %

```

- Show the child directoies under “/home”

```

maryamtaherzadeh@Maryams-MacBook-Pro Documents % cd home
maryamtaherzadeh@Maryams-MacBook-Pro home % ls -altr
total 16
drwx-----@ 49 maryamtaherzadeh  staff   1568 Jan 24 11:58 ..
drwxr-xr-x   4 maryamtaherzadeh  staff    128 Jan 24 12:00 .
-rw-r--r--@ 1 maryamtaherzadeh  staff  6148 Jan 24 12:00 .DS_Store
drwxr-xr-x   4 maryamtaherzadeh  staff    128 Jan 24 12:00 pi
maryamtaherzadeh@Maryams-MacBook-Pro home %

```

36- In “/home/pi/exercise/unix” create a new empty file called “test.txt”

```

maryamtaherzadeh@Maryams-MacBook-Pro home % cd pi
maryamtaherzadeh@Maryams-MacBook-Pro pi % cd exercise
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cd unix
maryamtaherzadeh@Maryams-MacBook-Pro unix % pwd
/Users/maryamtaherzadeh/Documents/home/pi/exercise/unix
maryamtaherzadeh@Maryams-MacBook-Pro unix % vi test.txt
maryamtaherzadeh@Maryams-MacBook-Pro unix % ls -altr
total 0
drwxr-xr-x  5 maryamtaherzadeh  staff   160 Jan 24 12:03 ..
-rw-r--r--  1 maryamtaherzadeh  staff     0 Jan 24 12:11 test.txt
drwxr-xr-x  3 maryamtaherzadeh  staff    96 Jan 24 12:11 .
maryamtaherzadeh@Maryams-MacBook-Pro unix %

```

- Copy this file to “test1.txt” and “test2.txt”

```

maryamtaherzadeh@Maryams-MacBook-Pro unix % pwd
/Users/maryamtaherzadeh/Documents/home/pi/exercise/unix
maryamtaherzadeh@Maryams-MacBook-Pro unix % vi test.txt

```

```

maryamtaherzadeh@Maryams-MacBook-Pro unix % ls -altr
total 0
drwxr-xr-x  5 maryamtaherzadeh  staff  160 Jan 24 12:03 ..
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:11 test.txt
drwxr-xr-x  3 maryamtaherzadeh  staff   96 Jan 24 12:11 .
maryamtaherzadeh@Maryams-MacBook-Pro unix % cp test.txt test1.txt
maryamtaherzadeh@Maryams-MacBook-Pro unix % ls -altr
total 0
drwxr-xr-x  5 maryamtaherzadeh  staff  160 Jan 24 12:03 ..
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:11 test.txt
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:13 test1.txt
drwxr-xr-x  4 maryamtaherzadeh  staff  128 Jan 24 12:13 .
maryamtaherzadeh@Maryams-MacBook-Pro unix % cp test.txt test2.txt
maryamtaherzadeh@Maryams-MacBook-Pro unix % ls -altr
total 0
drwxr-xr-x  5 maryamtaherzadeh  staff  160 Jan 24 12:03 ..
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:11 test.txt
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:13 test1.txt
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:14 test2.txt
drwxr-xr-x  5 maryamtaherzadeh  staff  160 Jan 24 12:14 .
maryamtaherzadeh@Maryams-MacBook-Pro unix %

```

Delete files “test1.txt and “test2.txt” in one command without deleting “test.txt”

```

maryamtaherzadeh@Maryams-MacBook-Pro unix % rm test1.txt test2.txt
maryamtaherzadeh@Maryams-MacBook-Pro unix % ls -altr
total 0
drwxr-xr-x  5 maryamtaherzadeh  staff  160 Jan 24 12:03 ..
-rw-r--r--  1 maryamtaherzadeh  staff    0 Jan 24 12:11 test.txt
drwxr-xr-x  3 maryamtaherzadeh  staff   96 Jan 24 12:16 .
maryamtaherzadeh@Maryams-MacBook-Pro unix %

```

- Rename “test.txt” to “deleteme.txt”

```

maryamtaherzadeh@Maryams-MacBook-Pro unix % pip install rename
DEPRECATION: Python 2.7 reached the end of its life on January 1st,
2020. Please upgrade your Python as Python 2.7 is no longer
maintained. pip 21.0 will drop support for Python 2.7 in January 2021.
More details about Python 2 support in pip can be found at https://
pip.pypa.io/en/latest/development/release-process/#python-2-support
pip 21.0 will remove support for this functionality.
Defaulting to user installation because normal site-packages is not
writeable

```

```
Requirement already satisfied: rename in /Users/maryamtaherzadeh/
Library/Python/2.7/lib/python/site-packages (1.2)
Requirement already satisfied: argparse in /Users/maryamtaherzadeh/
Library/Python/2.7/lib/python/site-packages (from rename) (1.4.0)
maryamtaherzadeh@Maryams-MacBook-Pro unix % rename test.txt
zsh: command not found: rename
```

```
maryamtaherzadeh@Maryams-MacBook-Pro unix % rm deletme.txt
```

37- Create the file "fruit.txt" with following text

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cd Documents
maryamtaherzadeh@Maryams-MacBook-Pro Documents % cd home
maryamtaherzadeh@Maryams-MacBook-Pro home % cd pi
maryamtaherzadeh@Maryams-MacBook-Pro pi % cd exercise
maryamtaherzadeh@Maryams-MacBook-Pro exercise % vi fruit.txt
maryamtaherzadeh@Maryams-MacBook-Pro exercise % ls -altr
total 16
drwxr-xr-x  4 maryamtaherzadeh  staff   128 Jan 24 12:00 ..
-rw-r--r--@ 1 maryamtaherzadeh  staff  6148 Jan 24 12:01 .DS_Store
drwxr-xr-x  2 maryamtaherzadeh  staff    64 Jan 24 12:01 python
drwxr-xr-x  3 maryamtaherzadeh  staff    96 Jan 24 12:16 unix
-rw-r--r--  1 maryamtaherzadeh  staff     0 Jan 24 12:27 fruit.txt
drwxr-xr-x  6 maryamtaherzadeh  staff   192 Jan 24 12:27 .
maryamtaherzadeh@Maryams-MacBook-Pro exercise %
```

- Append the following lines:

```
maryamtaherzadeh@Maryams-MacBook-Pro exercise % vi fruit.txt
maryamtaherzadeh@Maryams-MacBook-Pro exercise % echo
"Peach","Grape","Orange">>fruit.txt
```

- Display the contents of the file

```
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat fruit.txt
Pear
Banana
Apple
```

```
Peach,Grape,Orange
maryamtaherzadeh@Maryams-MacBook-Pro exercise % sort fruit.txt
Apple
Banana
Peach,Grape,Orange
Pear
```

- List the users current logged in sorted alphabetically

```
maryamtaherzadeh@Maryams-MacBook-Pro exercise % sort /etc/passwd
```

38- export and dot command

1. <u>a.sh</u> a=1 b=2	1. <u>b.sh</u> a.sh 2.export c=3 3.echo "a=\$a" 4.echo "b=\$b" 5.echo "c=\$c" 6. 10.	1. <u>c.sh</u> . b.sh 2.d=4 3.echo "a=\$a" 4.echo "b=\$b" 5.echo "c=\$c" 6.echo "d=\$d" 7. 17.
--	--	---

1. What is displayed if executing *c.sh*?

```
maryamtaherzadeh@Maryams-MacBook-Pro unix % sh c.sh
```

```
sh c.sh b.sh: line 2: a.sh: command not found
```

```
a=
b=
c=3
a=
b=
c=3
d=4
```

1. What is displayed if executing <i>a.sh</i> ?	1. <u>b.sh</u> c.sh 2.export c=3 3.echo "a=\$a" 4.echo "b=\$b" 5.echo "c=\$c" 6. 29.	1. <u>c.sh</u> d=4 2.echo "a=\$a" 3.echo "b=\$b" 4.echo "c=\$c" 5.echo "d=\$d" 6. 35.
---	--	---

2.

1. What is displayed if executing <i>a.sh</i> ?	1. <u>b.sh</u> . c.sh 2.export c=3 3.echo "a=\$a" 4.echo "b=\$b" 5.echo "c=\$c" 6. 47.	1. <u>c.sh</u> d=4 2.echo "a=\$a" 3.echo "b=\$b" 4.echo "c=\$c" 5.echo "d=\$d" 6. 53.
---	--	---

maryamtaherzadeh@Maryams-MacBook-Pro unix % sh a.sh

a=1
b=2
c=3
d=4
a=1
b=2
c=3

What is displayed

```
$ ls f1 f2
```

```
$ cat f1 L1
```

```
$ cat f2 L2 L3
```

```
$ cat f1 > f2
```

```
$ cat f1 f2 > f3
```

```
# What is displayed? $ cat f1 f2 f3
```

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % vi f1
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1
L1
maryamtaherzadeh@Maryams-MacBook-Pro ~ % vi f2
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f2
L2
L3
```

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1 > f2
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1
L1
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f2
L1
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1 f2 > f3
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1 f2 f3
L1
L1
L1
L1
```

What is displayed

```
$ ls f1 f2
```

```
$ cat f1 L1
```

```
$ cat f2 L2 L3
```

```
$ cat f1 >> f2
```

```
$ cat f1 f2 > f3
```

What is displayed? \$ cat f1 f2 f3

```
maryamtaherzadeh@Maryams-MacBook-Pro exercise % vi f1
maryamtaherzadeh@Maryams-MacBook-Pro exercise % vi f2
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat f1
L1
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat f2
L2
L3
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat f1>>f2
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat f1 f2 >f3
maryamtaherzadeh@Maryams-MacBook-Pro exercise % cat f1 f2 f3
L1
L2
L3
L1
L1
L2
L3
L1
```

What is displayed

\$ ls f1 f2

\$ cat f1 L1

\$ cat f2 L2 L3

\$ cat f1 >> f2

\$ cat f1 f2 >> f3

What is displayed? \$ cat f1 f2 f3

```
maryamtaherzadeh@Maryams-MacBook-Pro ~ % vi f1
maryamtaherzadeh@Maryams-MacBook-Pro ~ % vi f2
maryamtaherzadeh@Maryams-MacBook-Pro ~ % vat f2
zsh: command not found: vat
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f2
L2
L3
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1>>f2
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1 f2>>f3
maryamtaherzadeh@Maryams-MacBook-Pro ~ % cat f1 f2 f3
L1
L2
```


[illegible]