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ACIT 2420-Assignment 1

Creating a shared folder with vagrant, and put them in my shared folder on my VM.

```
vagrant@ubuntu-hirsute: ~  
vagrant@ubuntu-hirsute:~$ ls  
+ ls --color=auto  
Documents alias pipe1 ubup week4 week5  
vagrant@ubuntu-hirsute:~$ mkdir shared  
+ mkdir shared  
vagrant@ubuntu-hirsute:~$ ls  
+ ls --color=auto  
Documents alias pipe1 shared ubup week4 week5  
vagrant@ubuntu-hirsute:~$ |
```

```
Last login: Wed Nov 3 15:56:37 2021 from 10.0.2.2  
vagrant@ubuntu-hirsute:~$  
vagrant@ubuntu-hirsute:~$ ls  
Documents Vagrantfile alias pipe1 shared ubup week4 week5  
vagrant@ubuntu-hirsute:~$ cd shared  
vagrant@ubuntu-hirsute:~/shared$ |
```

Part 1 : Shell script 1. A contact list.

```
vagrant@ubuntu-hirsute:~/shared$ vagrant@ubuntu-hirsute:~/shared$ vim code.py
vagrant@ubuntu-hirsute:~/shared$ touch assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ ls -l
total 16
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 04:55 assignment.ssh
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 03:17 code
-rwxrwxr-x 1 vagrant vagrant 302 Nov  6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ touch assignment.sh
vagrant@ubuntu-hirsute:~/shared$ ls -l
total 16
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 04:56 assignment.sh
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 04:55 assignment.ssh
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 03:17 code
-rwxrwxr-x 1 vagrant vagrant 302 Nov  6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ vi $assignment/.ssh/config
vagrant@ubuntu-hirsute:~/shared$
```

```
vagrant vagrant 302 Nov  6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ vi $assignment/.ssh/config
vagrant@ubuntu-hirsute:~/shared$ vi $assignment/.ssh/config
vagrant@ubuntu-hirsute:~/shared$ chmod +x assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ touch assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ ls -l
total 16
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 04:56 assignment.sh
-rwxrwxr-x 1 vagrant vagrant  0 Nov  6 05:11 assignment.ssh

-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 03:17 code

-rwxrwxr-x 1 vagrant vagrant 302 Nov  6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ ./assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ ls -l
total 16
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 04:56 assignment.sh
-rwxrwxr-x 1 vagrant vagrant  0 Nov  6 05:11 assignment.ssh
-rw-rw-r-- 1 vagrant vagrant  0 Nov  6 03:17 code
-rwxrwxr-x 1 vagrant vagrant 302 Nov  6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ vim assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ vim $assignment/.ssh/config
vagrant@ubuntu-hirsute:~/shared$ touch assignment.ssh
```

+

```
"assignment.sh" 8L, 222B
```

```
-rw-rw-r-- 1 vagrant vagrant 0 Nov 6 04:56 assignment.sh
-rwxrwxr-x 1 vagrant vagrant 0 Nov 6 05:11 assignment.ssh
-rw-rw-r-- 1 vagrant vagrant 0 Nov 6 03:17 code
-rwxrwxr-x 1 vagrant vagrant 302 Nov 6 04:31 code.py
-rw-rw-r-- 1 vagrant vagrant 240 Nov 6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant 95 Nov 5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant 89 Nov 6 01:17 file.txt
vagrant@ubuntu-hirsute:~/shared$ vim assignment.ssh
vagrant@ubuntu-hirsute:~/shared$ vim $assignment/.ssh/config
vagrant@ubuntu-hirsute:~/shared$ touch assignment.ssh
vagrant@ubuntu-hirsute:~/shared$
vagrant@ubuntu-hirsute:~/shared$ ls -l
total 16
-rw-rw-r-- 1 vagrant vagrant 0 Nov 6 04:56 assignment.sh
-rwxrwxr-x 1 vagrant vagrant 0 Nov 6 05:17 assignment.ssh
-rw-rw-r-- 1 vagrant vagrant 0 Nov 6 03:17 code
-rwxrwxr-x 1 vagrant vagrant 302 Nov 6 04:31 code.py

-rw-rw-r-- 1 vagrant vagrant 240 Nov 6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant 95 Nov 5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant 89 Nov 6 01:17 file.txt

vagrant@ubuntu-hirsute:~/shared$ ls -l assignment.sh
-rw-rw-r-- 1 vagrant vagrant 222 Nov 6 05:24 assignment.sh
vagrant@ubuntu-hirsute:~/shared$ cat assignment.sh
#!/bin/bash
# Ask the user's to write their contact information.
echo "Hello $USER"
echo "Please Enter your $EMAIL"
echo "Please Enter your $NUMBER"
echo "Today is $(date)"
echo "Please Enter your $ADDRESS"
```



```
vagrant@ubuntu-hirsute: ~/sha X + v
-rw-rw-r-- 1 vagrant vagrant 240 Nov  6 03:56 code_two.py
-rw-rw-r-- 1 vagrant vagrant  95 Nov  5 06:57 extension.sh
-rw-rw-r-- 1 vagrant vagrant  89 Nov  6 01:17 file.txt

vagrant@ubuntu-hirsute:~/shared$ ls -l assignment.sh
-rw-rw-r-- 1 vagrant vagrant 222 Nov  6 05:24 assignment.sh
vagrant@ubuntu-hirsute:~/shared$ cat assignment.sh
#!/bin/bash
# Ask the user's to write their contact information.
echo "Hello $USER"
echo "Please Enter your $EMAIL"
echo "Please Enter your $NUMBER"
echo "Today is $(date)"
echo "Please Enter your $ADDRESS"
echo "Bye for now"
vagrant@ubuntu-hirsute:~/shared$ ./assignment.sh
-bash: ./assignment.sh: Permission denied
vagrant@ubuntu-hirsute:~/shared$ chmod +x assignment.sh
vagrant@ubuntu-hirsute:~/shared$ ls -l assignment.sh
-rwxrwxr-x 1 vagrant vagrant 222 Nov  6 05:24 assignment.sh
vagrant@ubuntu-hirsute:~/shared$ ./assignment.sh
./assignment.sh: line 3: echoHello vagrant: command not found
Please Enter your
./assignment.sh: line 5: echoPlease Enter your : command not found
./assignment.sh: line 6: echoToday is Sat Nov  6 05:26:08 UTC 2021: command not found
./assignment.sh: line 7: echoPlease Enter your : command not found
Bye for now
vagrant@ubuntu-hirsute:~/shared$ vi assignment.sh
vagrant@ubuntu-hirsute:~/shared$
```

Part 2: Shell script 3. display links on a web page

```
vagrant@ubuntu-hirsute:~/shared$ man bash
vagrant@ubuntu-hirsute:~/shared$ ~/.bashrc
bash: /home/vagrant/.bashrc: Permission denied
vagrant@ubuntu-hirsute:~/shared$ /etc/profile
bash: /etc/profile: Permission denied
vagrant@ubuntu-hirsute:~/shared$ /etc/shared
bash: /etc/shared: No such file or directory
vagrant@ubuntu-hirsute:~/shared$ ~/.shared
bash: /home/vagrant/.shared: No such file or directory
vagrant@ubuntu-hirsute:~/shared$ vim extension.sh
vagrant@ubuntu-hirsute:~/shared$ vim extension.sh
vagrant@ubuntu-hirsute:~/shared$ vagrant@ubuntu-hirsute:~/shared$
```

```
vagrant@ubuntu-hirsute:~/shared$ vim file.txt
vagrant@ubuntu-hirsute:~/shared$ vagrant@ubuntu-hirsute:~/shared$
```

+

✓

1. file line
2. second line
3. third line
4. fourth line
5. fifth line

line 2

2

2

2

2

2

2

2

2

2

2

2

2

2

2

of

2

2

2

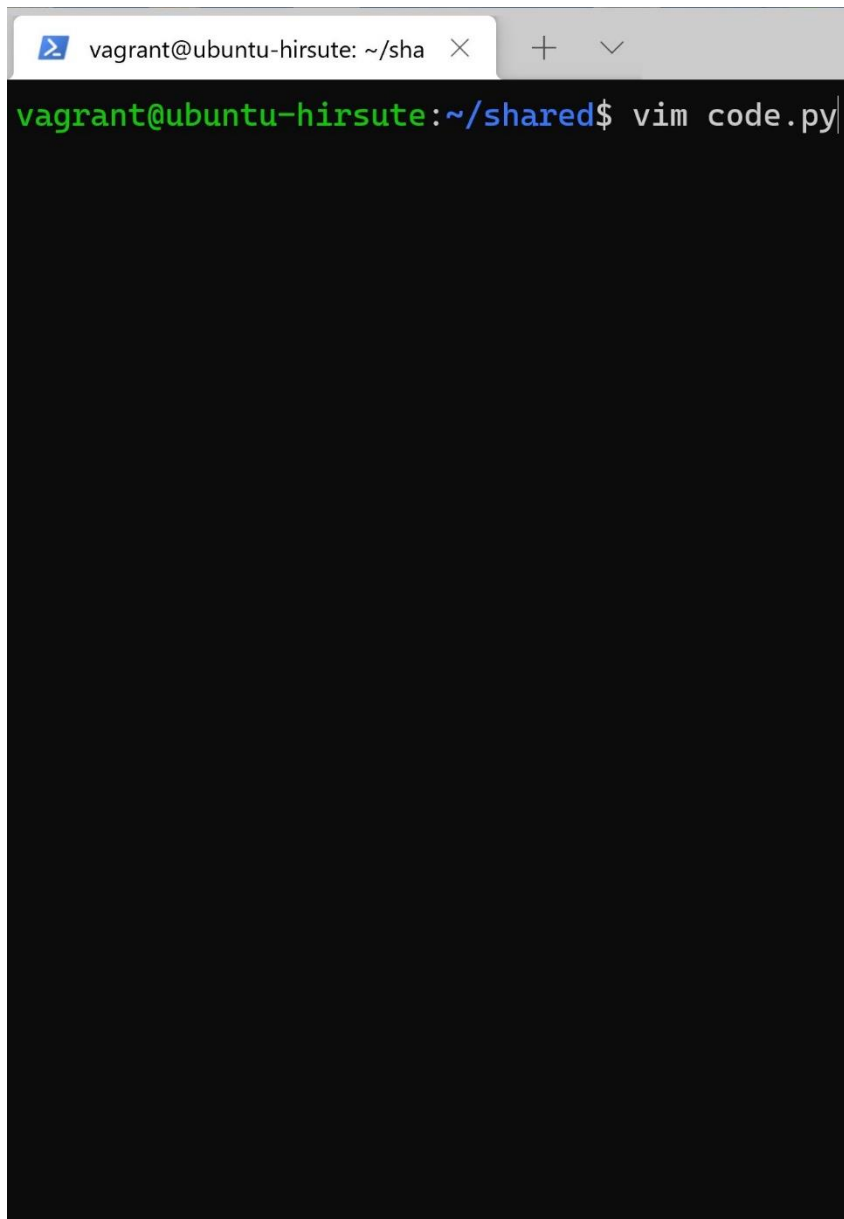
```
"extension.sh" 8L, 95B written
```


+

:W

2

```
"file.txt" 7L, 89B
```



A terminal window with a single tab titled "vagrant@ubuntu-hirsute: ~/sha". The terminal prompt is "vagrant@ubuntu-hirsute:~/shared\$". The user has entered the command "vim code.py", and the terminal screen is now filled with a solid black rectangle, representing the vim editor interface.

```
vagrant@ubuntu-hirsute: ~/sha × + ∨  
vagrant@ubuntu-hirsute:~/shared$ vim code.py
```

+

✓

```
f = open("file.txt")
```

```
for x, line in enumerate(f):
    if x == 3:
        print line
```

```
f.close()
```

```
"code.py" 11L, 124B written
```

vagrant@ubuntu-hirsute: ~/sha

```
#!/usr/bin env python3
f = open("file.txt")
for x, line in enumerate(f):
    if x == 3:
        print(line)
    elif x == 4:
        print(line)
    elif x == 5:
        print(line)
    elif x == 2:
        print(line)
    elif x == 1:
        print(line)
    elif x == 0:
        print(line)
f.close()
~
~
~
~
~
~
~
~
~
~
```

80 4k 25 186 241

REMOTE

```
#!/usr/bin/env python3
f = open("file.txt")
for x, line in enumerate(f):
    if x == 3:
        print(line)
    elif x == 4:
        print(line)
    elif x == 5:
        print(line)
    elif x == 2:
        print(line)
    elif x == 1:
        print(line)
    elif x == 0:
        print(line)
f.close()
```

```
~
~
~
~
~
~
~
~
~
~
~
```

vagrant@ubuntu-hirsute: ~/sha

The list of available updates is more than a week old.
To check for new updates run: `sudo apt update`

Last login: Sat Nov 6 01:15:10 2021 from 10.0.2.2

vagrant@ubuntu-hirsute:~\$ `vim code.py`

vagrant@ubuntu-hirsute:~\$ `cd shared`

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `./code.py`

File `"/home/vagrant/shared/./code.py"`, line 9

`if x == 3`

^

SyntaxError: invalid syntax

vagrant@ubuntu-hirsute:~/shared\$ `./code.py`

File `"/home/vagrant/shared/./code.py"`, line 9

`if x == 3`

^

SyntaxError: invalid syntax

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `./code.py`

File `"/home/vagrant/shared/./code.py"`, line 9

`if x == 3`

^

SyntaxError: invalid syntax

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `./code.py`

4. fourth line

vagrant@ubuntu-hirsute:~/shared\$

vagrant@ubuntu-hirsute:~\$ `cd shared`

vagrant@ubuntu-hirsute:~/shared\$ `vim copy.py`

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

vagrant@ubuntu-hirsute:~/shared\$ `vim code.py`

1. first line
2. second line
3. ...

Part 3: **Shell script 3. display links on a web page**

```
vagrant@ubuntu-hirsute:~/shared$ sudo apt-get install curl wget lynx w3m
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
curl is already the newest version (7.74.0-1.3ubuntu2).
curl set to manually installed.
wget is already the newest version (1.21-1ubuntu3).
wget set to manually installed.
The following additional packages will be installed:
  bzip2 libgc1 libidn11 lynx-common mailcap mime-support
Suggested packages:
  bzip2-doc cmigemo dict dict-wn dictd libsixel-bin w3m-el w3m-img xdg-utils xsel
The following NEW packages will be installed:
  bzip2 libgc1 libidn11 lynx lynx-common mailcap mime-support w3m
0 upgraded, 8 newly installed, 0 to remove and 16 not upgraded.
Need to get 3047 kB of archives.
After this operation, 9029 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://archive.ubuntu.com/ubuntu impish/main amd64 bzip2 amd64 1.0.8-4ubuntu3 [33.4 kB]
Get:2 http://archive.ubuntu.com/ubuntu impish/main amd64 libgc1 amd64 1:8.0.4-3 [88.4 kB]
Get:3 http://archive.ubuntu.com/ubuntu impish/main amd64 libidn11 amd64 1.33-3 [46.1 kB]
Get:4 http://archive.ubuntu.com/ubuntu impish/universe amd64 lynx-common all 2.9.0dev.6-3 [1032 kB]
Get:5 http://archive.ubuntu.com/ubuntu impish/main amd64 mailcap all 3.69ubuntu1 [23.7 kB]
Get:6 http://archive.ubuntu.com/ubuntu impish/main amd64 mime-support all 3.66 [3696 B]
Get:7 http://archive.ubuntu.com/ubuntu impish/main amd64 w3m amd64 0.5.3+git20210102-6build1 [1105 kB]
Get:8 http://archive.ubuntu.com/ubuntu impish/universe amd64 lynx amd64 2.9.0dev.6-3 [715 kB]
```

```
vagrant@ubuntu-hirsute: ~/shared
vagrant@ubuntu-hirsute:~/shared$ wget -O - https://boulderhouse.ca/covid19/reservations/
--2021-11-06 05:35:18-- https://boulderhouse.ca/covid19/reservations/
Resolving boulderhouse.ca (boulderhouse.ca)... 167.114.8.64
Connecting to boulderhouse.ca (boulderhouse.ca)|167.114.8.64|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'STDOUT'

- [==> ] 0 --KB/s <
!doctype html>
<html class="no-js" lang="en-CA">

<head>

  <title>Victoria Reservations | BoulderHouse</title>
  <meta name="description" content="">

  <meta charset="utf-8">
<meta http-equiv="x-ua-compatible" content="ie=edge">
<meta name="viewport" content="width=device-width,initial-scale=1.0,maximum-scale=1,shrink-to-fit=no" />

<link rel="canonical" href="https://boulderhouse.ca/covid19/reservations/">


  <meta property="og:image" content="https://boulderhouse.ca/images/menu/reservations.jpg" />
  <meta property="og:type" content="website" />

  <meta property="og:title" content="VICTORIA RESERVATIONS" />

<meta property="og:url" content="https://boulderhouse.ca/covid19/reservations/" />
<meta property="og:site_name" content="BoulderHouse" />
<meta property="og:locale" content="en_CA" />
```

```
vagrant@ubuntu-hirsute: ~/sha X + - x
vagrant@ubuntu-hirsute:~/shared$ wget -O - https://github.com/vinceliuice/Graphite-gtk-theme
--2021-11-06 05:41:54-- https://github.com/vinceliuice/Graphite-gtk-theme
Resolving github.com (github.com)... 140.82.113.4
Connecting to github.com (github.com)[140.82.113.4]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: unspecified [text/html]
Saving to: 'STDOUT'

- [==> ] 0 --.-KB/s

<!DOCTYPE html>
<html lang="en" data-color-mode="auto" data-light-theme="light" data-dark-theme="dark">
  <head>
    <meta charset="utf-8">
    <link rel="dns-prefetch" href="https://github.githubassets.com">
    <link rel="dns-prefetch" href="https://avatars.githubusercontent.com">
    <link rel="dns-prefetch" href="https://github-cloud.s3.amazonaws.com">
    <link rel="dns-prefetch" href="https://user-images.githubusercontent.com/">
    <link rel="preconnect" href="https://github.githubassets.com" crossorigin>
    <link rel="preconnect" href="https://avatars.githubusercontent.com">

    <link crossorigin="anonymous" media="all" integrity="sha512-L06pZD/4Yecj8D8pY5aYfA7oKG6CI8/hlx2K9ZLX0S/jSTnYEjrusaVa9ZIb903/tBHmnRF
LzaClixcafWtaAg==" rel="stylesheet" href="https://github.githubassets.com/assets/light-2f4ea9643ff861e723f03f296396987c.css" /><link
crossorigin="anonymous" media="all" integrity="sha512-xcx3R1NmKjg0AE2DsCHYbus068pwqr4i3Xaa1osduISrxqYFi3zIaBLqjzt5FM9VSHqFN7mneFXK73Z
9a2QRJg==" rel="stylesheet" href="https://github.githubassets.com/assets/dark-c5cc774753662a380e004d83b021d86e.css" /><link data-colo
r-theme="dark_dimmed" crossorigin="anonymous" media="all" integrity="sha512-xLDV9el7Cjd+KTSbwspcx+c8its28uxn++hLZ9pqYYo1z0VcpLPLElTo42
```