Linux commands task

Part 1

1- Create Directories:

```
aya@aya-VirtualBox:~$ mkdir my_app
aya@aya-VirtualBox:~$ cd my_app
aya@aya-VirtualBox:~/my_app$ mkdir src assets
aya@aya-VirtualBox:~/my_app$ ls
assets src
aya@aya-VirtualBox:~/my_app$
```

2- Create and Populate files:

```
aya@aya-VirtualBox:~/my_app$ cd src

aya@aya-VirtualBox:~/my_app/src$ touch main.py

aya@aya-VirtualBox:~/my_app/src$ cd ..

aya@aya-VirtualBox:~/my_app$ cd assets

aya@aya-VirtualBox:~/my_app/assets$ touch config.txt

aya@aya-VirtualBox:~/my_app$ echo "Default Port: 8080" > assets/config.txt

aya@aya-VirtualBox:~/my_app$ nano config.txt

(to check the content of the file)
```

Part 2

1- Create a Symbolic Link:

```
aya@aya-VirtualBox:~/my_app$ ln -s ~/assets/config.txt active_config
aya@aya-VirtualBox:~/my_app$ ls -1
active_config
aya@aya-VirtualBox:~/my_app$
```

2- Find System files:

aya@aya-VirtualBox:~/my_app\$ find /etc -name services

find: '/etc/ssl/private': Permission denied

find: '/etc/cups/ssl': Permission denied

/etc/services

/etc/avahi/services

find: '/etc/polkit-1/localauthority': Permission denied

aya@aya-VirtualBox:~/my_app\$ cp /etc/services assets

aya@aya-VirtualBox:~/my_app\$ cd assets

aya@aya-VirtualBox:~/my_app/assets\$ ls

config.txt services

aya@aya-VirtualBox:~/my_app/assets\$

3- Search File Content:

aya@aya-VirtualBox:~/my_app/assets\$ grep "http" services

Updated from https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml .

http 80/tcp www #WorldWideWeb HTTP

https 443/tcp # http protocol over TLS/SSL

https 443/udp # HTTP/3

http-alt 8080/tcp webcache # WWW caching service

aya@aya-VirtualBox:~/my_app/assets\$ grep -n "http" services

3:# Updated from https://www.iana.org/assignments/service-names-port-numbers/service-names-port-numbers.xhtml .

39:http 80/tcp www #WorldWideWeb HTTP

83:https 443/tcp # http protocol over

TLS/SSL

263:http-alt 8080/tcp webcache # WWW caching service

aya@aya-VirtualBox:~/my_app/assets\$

Part 3

1- Verify Directory Structure

aya@aya-VirtualBox:~\$ tree my_app

my_app

--- active_config -> /home/aya/assets/config.txt

2- Clean Up:

```
aya@aya-VirtualBox:~/my_app$ rm active_config
aya@aya-VirtualBox:~/my_app$ cd ..
aya@aya-VirtualBox:~$ rm -r my_app
aya@aya-VirtualBox:~$
```