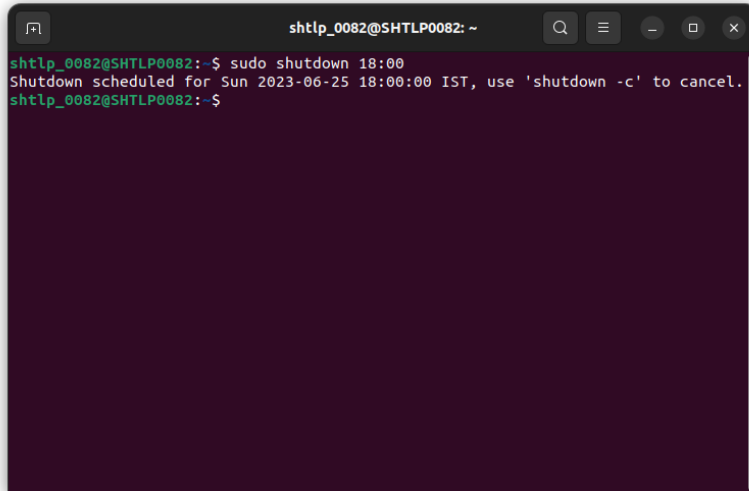


Assessment 1

Q: Suppose you want to shut down the system at 6 pm today, then the command for this would be:

Ans 1: `sudo shutdown 18:00`



```
shtlp_0082@SHTLP0082: ~  
shtlp_0082@SHTLP0082:~$ sudo shutdown 18:00  
Shutdown scheduled for Sun 2023-06-25 18:00:00 IST, use 'shutdown -c' to cancel.  
shtlp_0082@SHTLP0082:~$
```

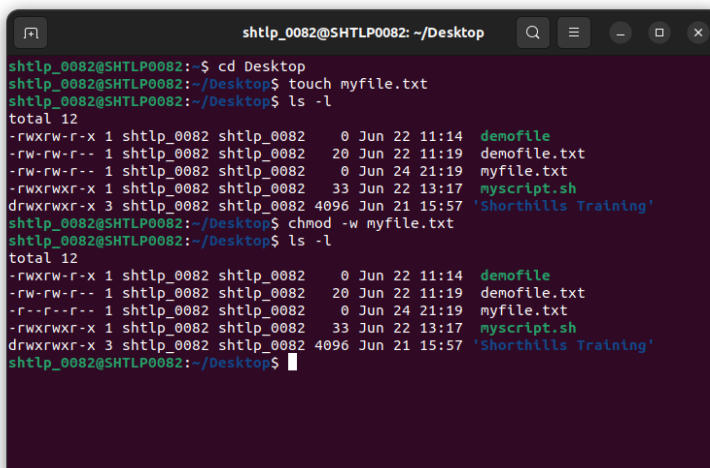
Q: Create a text file and change its permissions from write to read and show all the steps for it.

Ans 2: `touch myfile.txt`

`Ls -l`

`Chmod-w myfile.txt`

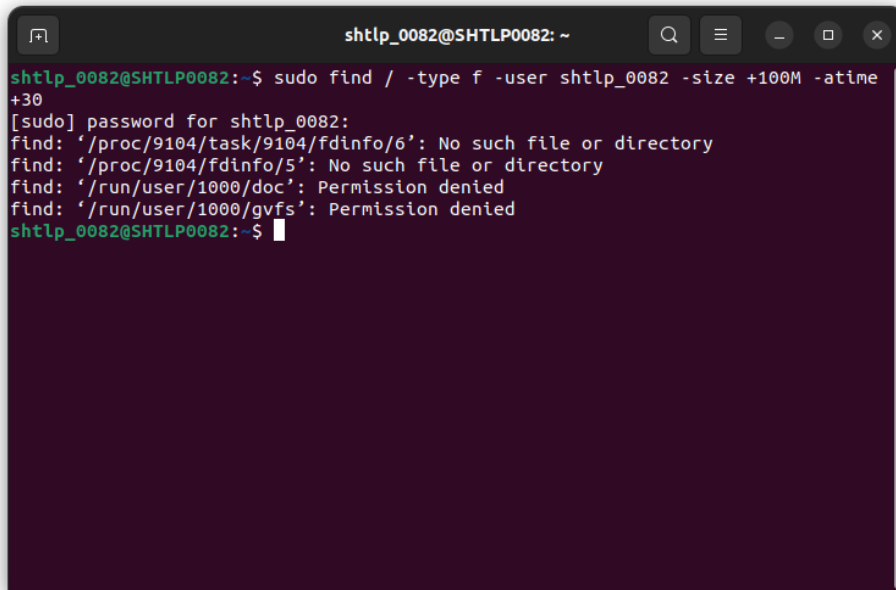
`Ls -l`



```
shtlp_0082@SHTLP0082: ~/Desktop  
shtlp_0082@SHTLP0082:~$ cd Desktop  
shtlp_0082@SHTLP0082:~/Desktop$ touch myfile.txt  
shtlp_0082@SHTLP0082:~/Desktop$ ls -l  
total 12  
-rwxrw-r-x 1 shtlp_0082 shtlp_0082  0 Jun 22 11:14 demofile  
-rw-rw-r-- 1 shtlp_0082 shtlp_0082 20 Jun 22 11:19 demofile.txt  
-rw-rw-r-- 1 shtlp_0082 shtlp_0082  0 Jun 24 21:19 myfile.txt  
-rwxrwxr-x 1 shtlp_0082 shtlp_0082 33 Jun 22 13:17 nyscript.sh  
drwxrwxr-x 3 shtlp_0082 shtlp_0082 4096 Jun 21 15:57 'Shorthills Training'  
shtlp_0082@SHTLP0082:~/Desktop$ chmod -w myfile.txt  
shtlp_0082@SHTLP0082:~/Desktop$ ls -l  
total 12  
-rwxrw-r-x 1 shtlp_0082 shtlp_0082  0 Jun 22 11:14 demofile  
-rw-rw-r-- 1 shtlp_0082 shtlp_0082 20 Jun 22 11:19 demofile.txt  
-r--r--r-- 1 shtlp_0082 shtlp_0082  0 Jun 24 21:19 myfile.txt  
-rwxrwxr-x 1 shtlp_0082 shtlp_0082 33 Jun 22 13:17 nyscript.sh  
drwxrwxr-x 3 shtlp_0082 shtlp_0082 4096 Jun 21 15:57 'Shorthills Training'  
shtlp_0082@SHTLP0082:~/Desktop$
```

Q: Perform a search in the root directory ("/") to find all files owned by a specific user, larger than 100MB in size, and have not been accessed in the last 30 days.

Ans 3: `sudo find / -type f -user shtlp_0082 -size +100M -atime +30`

A terminal window titled 'shtlp_0082@SHTLP0082: ~' with standard window controls. The terminal shows the command `sudo find / -type f -user shtlp_0082 -size +100M -atime +30` being executed. It prompts for a password, which is entered. The output shows four 'find' messages: two for non-existent files in `/proc/9104/task/9104/` and two for files in `/run/user/1000/` where permission was denied. The prompt returns to the user.

```
shtlp_0082@SHTLP0082: ~  
shtlp_0082@SHTLP0082:~$ sudo find / -type f -user shtlp_0082 -size +100M -atime +30  
[sudo] password for shtlp_0082:  
find: '/proc/9104/task/9104/fdinfo/6': No such file or directory  
find: '/proc/9104/fdinfo/5': No such file or directory  
find: '/run/user/1000/doc': Permission denied  
find: '/run/user/1000/gvfs': Permission denied  
shtlp_0082@SHTLP0082:~$
```

Q: Kill the process which was running for more than 2 hours and using <1% CPU.

Ans 4:

```
#!/bin/bash
```

```
# Get the list of PIDs for processes matching the criteria
```

```
pids=$(ps -eo pid,etimes,%cpu,comm | awk '$2 > 7200 && $3 < 1 { print $1 }')
```

```
# Check if any matching processes were found
```

```
if [ -n "$pids" ]; then
```

```
    echo "Processes found: $pids"
```

```
# Kill the processes
```

```
echo "Terminating processes..."
```

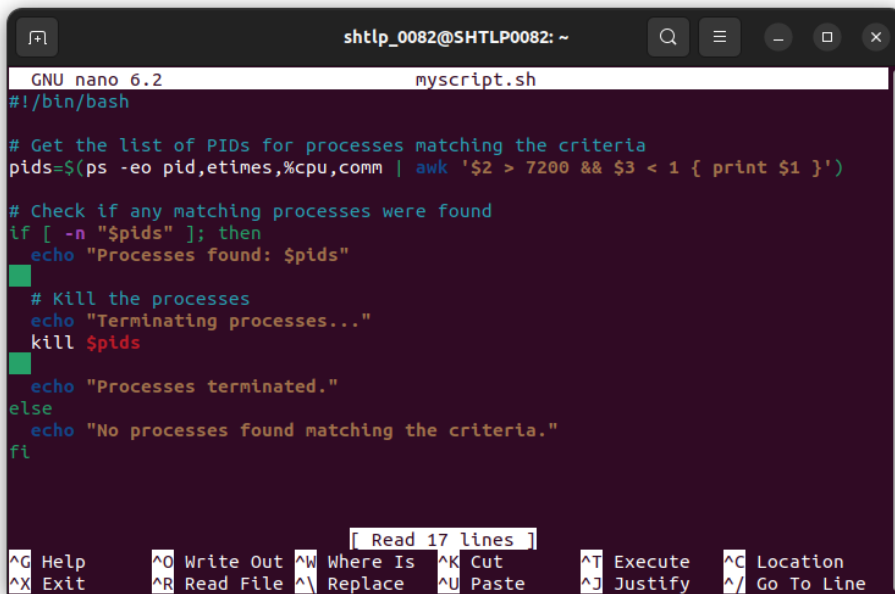
```
kill $pids
```

```
echo "Processes terminated."
```

```
else
```

```
echo "No processes found matching the criteria."
```

```
fi
```



```
shftp_0082@SHTLP0082: ~
GNU nano 6.2 myscrip.sh
#!/bin/bash

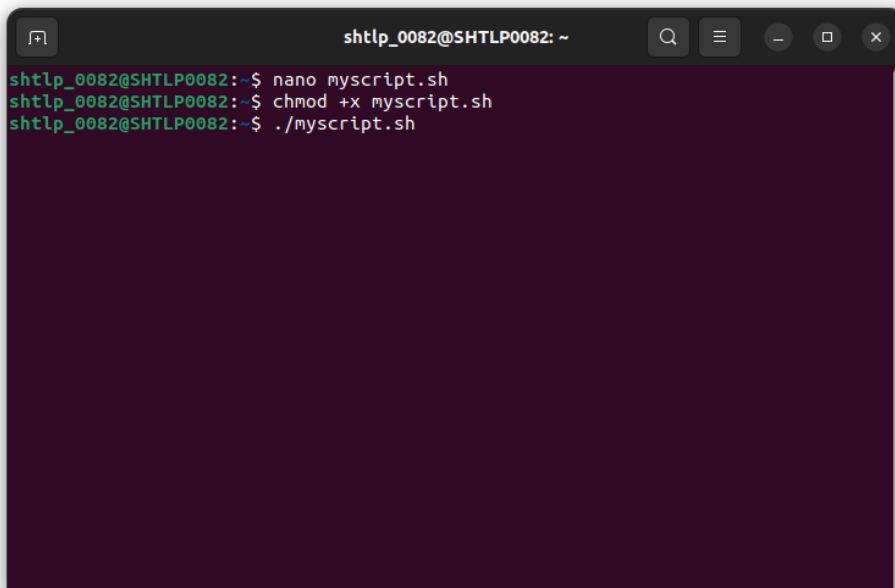
# Get the list of PIDs for processes matching the criteria
pids=$(ps -eo pid,etimes,%cpu,comm | awk '$2 > 7200 && $3 < 1 { print $1 }')

# Check if any matching processes were found
if [ -n "$pids" ]; then
    echo "Processes found: $pids"

    # Kill the processes
    echo "Terminating processes..."
    kill $pids

    echo "Processes terminated."
else
    echo "No processes found matching the criteria."
fi

Read 17 lines
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line
```



```
shftp_0082@SHTLP0082: ~
shftp_0082@SHTLP0082:~$ nano myscrip.sh
shftp_0082@SHTLP0082:~$ chmod +x myscrip.sh
shftp_0082@SHTLP0082:~$ ./myscrip.sh
```

```
shtlp_0082@SHTLP0082: ~  
./myscript.sh: line 12: kill: (1007) - Operation not permitted  
./myscript.sh: line 12: kill: (1008) - Operation not permitted  
./myscript.sh: line 12: kill: (1009) - Operation not permitted  
./myscript.sh: line 12: kill: (1010) - Operation not permitted  
./myscript.sh: line 12: kill: (1011) - Operation not permitted  
./myscript.sh: line 12: kill: (1012) - Operation not permitted  
./myscript.sh: line 12: kill: (1013) - Operation not permitted  
./myscript.sh: line 12: kill: (1021) - Operation not permitted  
./myscript.sh: line 12: kill: (1118) - Operation not permitted  
./myscript.sh: line 12: kill: (1259) - Operation not permitted  
./myscript.sh: line 12: kill: (1296) - Operation not permitted  
./myscript.sh: line 12: kill: (1440) - Operation not permitted  
./myscript.sh: line 12: kill: (1575) - Operation not permitted  
./myscript.sh: line 12: kill: (1577) - Operation not permitted  
./myscript.sh: line 12: kill: (1687) - Operation not permitted  
./myscript.sh: line 12: kill: (4711) - Operation not permitted  
./myscript.sh: line 12: kill: (4841) - Operation not permitted  
./myscript.sh: line 12: kill: (5449) - Operation not permitted  
./myscript.sh: line 12: kill: (5450) - Operation not permitted  
./myscript.sh: line 12: kill: (7245) - Operation not permitted  
./myscript.sh: line 12: kill: (8187) - Operation not permitted  
./myscript.sh: line 12: kill: (8192) - Operation not permitted  
./myscript.sh: line 12: kill: (8234) - Operation not permitted  
Processes terminated.
```

Q: Download dpkg file and install using commands.

Ans 5: Download: wget https://download.teamviewer.com/download/linux/teamviewer_amd64.deb

Install: Sudo apt install ./teamviewer_amd64.deb

```
shtlp_0082@SHTLP0082: ~  
Resolving dl.teamviewer.com (dl.teamviewer.com)... 104.16.63.16, 104.16.62.16, 2  
606:4700::6810:3e10, ...  
Connecting to dl.teamviewer.com (dl.teamviewer.com)|104.16.63.16|:443... connect  
ed.  
HTTP request sent, awaiting response... 200 OK  
Length: 86040184 (82M) [application/octet-stream]  
Saving to: 'teamviewer_amd64.deb.1'  
  
teamviewer_amd64.de 100%[=====] 82.05M 2.70MB/s in 15s  
  
2023-06-25 11:15:11 (5.47 MB/s) - 'teamviewer_amd64.deb.1' saved [86040184/86040  
184]  
  
shtlp_0082@SHTLP0082:~$ sudo apt install ./teamviewer_amd64.deb  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
Note, selecting 'teamviewer' instead of './teamviewer_amd64.deb'  
teamviewer is already the newest version (15.42.4).  
The following packages were automatically installed and are no longer required:  
libflashrom1 libftdi1-2 libllvm13  
Use 'sudo apt autoremove' to remove them.  
0 upgraded, 0 newly installed, 0 to remove and 5 not upgraded.  
shtlp_0082@SHTLP0082:~$
```