```
mariam@mariam: ~/iot_logger
mariam@mariam:~$ cd iot logger
mariam@mariam:~/iot_logger$ export SENSOR TYPE=temperature
mariam@mariam:~/iot logger$ cd scripts
mariam@mariam:~/iot_logger/scripts$ ls
sensor script.pv
mariam@mariam:~/iot logger/scripts$ nano sensor script.py
mariam@mariam:~/iot_logger/scripts$ chmod +x scripts/sensor script.py
chmod: cannot access 'scripts/sensor_script.py': No such file or directory
mariam@mariam:~/iot_logger/scripts$ chmod +x
chmod: missing operand after '+x'
Try 'chmod --help' for more information.
mariam@mariam:~/iot_logger/scripts$ chmod +x sensor scripts.py
chmod: cannot access 'sensor scripts.py': No such file or directory
mariam@mariam:~/iot_logger/scripts$ chmod +x sensor script.py
mariam@mariam:~/iot_logger/scripts$ nohup python3 scripts/sensor_script.py >> logs/tempe
rature.log 2>&1 &
[1] 3907
mariam@mariam:~/iot_logger/scripts$ bash: logs/temperature.log: No such file or director
[1]+ Exit 1
                              nohup python3 scripts/sensor script.py >> logs/temperature
.log 2>&1
mariam@mariam:~/iot_logger/scripts$ cd ...
mariam@mariam:~/iot_logger$ nohup python3 scripts/sensor script.py >> logs/temperature.l
og 2>&1 &
[1] 3909
mariam@mariam:~/iot logger$ prgrep sensor
Command 'prgrep' not found, did you mean:
  command 'pegrep' from deb hxtools (20211204-1)
```

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mariam@mariam: ~/iot_logger
Command 'prgrep' not found, did you mean:
  command 'pegrep' from deb hxtools (20211204-1)
  command 'pgrep' from deb procps (2:3.3.17-6ubuntu2.1)
  command 'rgrep' from deb grep (3.7-1build1)
  command 'pogrep' from deb translate-toolkit (3.6.0-2)
Try: apt install <deb name>
mariam@mariam:~/iot_logger$ ps aux | grep "sensor"
mariam
            3909 0.0 0.2 19224 9216 pts/0 S 23:27
                                                            0:00 python3 scripts/senso
 r script.py
mariam 3931 0.0 0.0 9404 2560 pts/0 S+ 23:30
                                                             0:00 grep --color=auto sen
mariam@mariam:~/iot_logger$ ls -l /proc/3909/fd
total 0
l-wx----- 1 mariam mariam 64 Sep 3 23:31 0 -> /dev/null
l-wx----- 1 mariam mariam 64 Sep 3 23:31 1 -> /home/mariam/iot logger/logs/temperature
.loa
l-wx----- 1 mariam mariam 64 Sep 3 23:31 2 -> /home/mariam/iot_logger/logs/temperature
.log
mariam@mariam:~/iot_logger$ awk '$3+0 > 80 { print $0 }' logs/temperature.log > logs/tem
perature high.log
dmariam@mariam:~/iot_logger$ cp logs/*.log data/
mariam@mariam:~/iot logger$ ls -l data/
itotal 40
-rw-rw-r-- 1 mariam mariam 8171 Sep 3 23:35 hard link.log
-rw-r--r-- 1 mariam mariam 12813 Aug 31 23:34 services
-rw-rw-r-- 1 mariam mariam 8171 Sep 3 23:35 soft link.log
-rw-rw-r-- 1 mariam mariam 0 Sep 3 23:35 temperature high.log
-rw-rw-r-- 1 mariam mariam 8171 Sep 3 23:35 temperature.log
mariam@mariam:~/iot_logger$ unset SENSOR TYPE
```

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mariam@mariam: ~/iot logger
 -rw-rw-r-- 1 mariam mariam
                              0 Sep 3 23:35 temperature high.log
 -rw-rw-r-- 1 mariam mariam 8171 Sep 3 23:35 temperature.log
 mariam@mariam:~/iot_logger$ unset SENSOR_TYPE
 echo $SENSOR TYPE # should print nothing
 mariam@mariam:~/iot_logger$ (ls -l; sleep 60) | grep .py &
 [2] 3959
 mariam@mariam:~/iot_logger$ ps aux | grep grep
 ps aux | grep sleep
 mariam
          3959 0.0 0.0 9404 2560 pts/0
                                                           0:00 grep --color=auto .py
                                               S
                                                    23:36
            3963 0.0 0.0 9404 2560 pts/0
                                                    23:36
                                                           0:00 grep --color=auto gre
 mariam
                                               S+
 mariam
            3961 0.0 0.0 8696 1920 pts/0
                                               S
                                                    23:36
                                                           0:00 sleep 60
 mariam
            3965 0.0 0.0 9404 2560 pts/0
                                                    23:36
                                                           0:00 grep --color=auto sle
 mariam@mariam:~/iot_logger$ ls -l /proc/3959/fd
 total 0
nulr-x----- 1 mariam mariam 64 Sep 3 23:37 0 -> 'pipe:[24405]'
 lrwx----- 1 mariam mariam 64 Sep 3 23:37 1 -> /dev/pts/0
 kdmariam@mariam:~/iot_logger$ ls -l /proc/3061/fd
 ls: cannot access '/proc/3061/fd': No such file or directory
<sup>st</sup>[2]+ Exit 1
                             ( ls --color=auto -l; sleep 60 ) | grep --color=auto .py
ocmariam@mariam:~/iot_logger$ ls -l /proc/3961/fd
 ls: cannot access '/proc/3961/fd': No such file or directory
"mariam@mariam:~/iot_logger$ ls -l /proc/3965/fd
"Is: cannot access '/proc/3965/fd': No such file or directory
 mariam@mariam:~/iot_logger$
mariam@mariam:~/iot_logger$
```