Boot, reboot, and shut down a system safely :

```
Measurabh@Lenovolegion5)-[/home]

- 0 X

- (suurabh@Lenovolegion5)-[/home]

- (suurabh@Lenovolegion5)-[/home]

- (suurabh@Lenovolegion5)-[/home]

- (suurabh@Lenovolegion5)-[/home]

- (suurabh@Lenovolegion5)-[/home]

- (suurabh@Lenovolegion5)-[/home]

- (saurabh@Lenovolegion5)-[/home]

- (saurabh@Lenovolegion5)-[/home]
```

Diagnose and manage processes :

```
| Search | S
```

top - 08:42:56 up 1:12, 0 user, load average: 0.00, 0.00, 0.00 Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie

```
top - 08:42:56 up 1:12, 0 user, load average: 0.00, 0.00, 0.00
Tasks: 5 total, 1 running, 4 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni,100.0 id, 0.0 wa, 0.0 hi, 0.0 si, 0.0 st
MiB Mem : 3611.7 total, 3442.9 free, 214.2 used, 69.4 buff/cache
                          1024.0 free,
           1024.0 total,
                                            0.0 used.
MiB Swap:
                                                        3397.5 avail Mem
 PID USER
              PR NI
                        VIRT
                                RES
                                      SHR S %CPU %MEM
                                                            TIME+ COMMAND
                                      1104 S
                                                           0:00.02 init
   1 root
               20
                   0
                         1804
                                1188
                                               0.0
                                                     0.0
                                                           0:00.00 init
                                         0 5
                                               0.0
 127 root
                         1812
                                88
               20
                   a
                                                     0.0
 128 root
               20 0
                         1812
                                 96
                                         0 5
                                              0.0
                                                    0.0
                                                           0:00.46 init
 129 saurabh
               20 0
                         7244
                                4004
                                      3292 S
                                             0.0
                                                     0.1
                                                           0:00.38 bash
 436 saurabh
               20 0
                        11588
                                5304
                                      3156 R
                                             0.0
                                                           0:00.00 top
                                                     0.1
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```

Locate and analyse system log files :

```
Select saurabh@LenovoLegion5: /var/log/apt
  $ cd /var/log
  —(saurabh⊛ LenovoLegion5)-[/var/log]
apt btmp dpkg.log fontconfig.log lastlog openvpn README speech-dispatcher wtmp xrdp-sesman.log pompt private runit sysstat xrdp.log
  -(saurabh® LenovoLegion5)-[/var/log
  $ cd apt
  -(saurabh@LenovoLegion5)-[/var/log/apt]
 $ 1s
ipp.log.xz history.log term.log
         rabh@LenovoLegion5)-[/var/log/apt]
  $ tail -n 15 history.log
ommandline: apt-get install docker
Requested-By: saurabh (1000)
Install: wmdocker:amd64 (1.5-2, automatic), docker:amd64 (1.5-2)
End-Date: 2023-04-15 07:42:34
Start-Date: 2023-04-16 16:37:08
Commandline: apt-get install vim
Install: vim:amd64 (2:9.0.1378-1), vim-runtime:amd64 (2:9.0.1378-1, automatic)
End-Date: 2023-04-16 16:37:13
Start-Date: 2023-04-17 11:44:43
Commandline: apt-get install nginx -y
Requested-By: saurabh (1000)
Install: nginx:amd64 (1.22.1-9), nginx-common:amd64 (1.22.1-9, automatic)
End-Date: 2023-04-17 11:44:46
  -(saurabh⊕ LenovoLegion5)-[/var/log/apt]
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```

Schedule tasks to run at a set date and time : Verify completion of scheduled jobs :

```
-(saurabh⊛ LenovoLegion5) - [~/Saurabh/newfolder]
Tue Apr 18 09:28:36 AM IST 2023
  -(saurabh@ LenovoLegion5)-[~/Saurabh/newfolder]
warning: commands will be executed using /bin/sh
at Tue Apr 18 09:30:00 2023
at> echo "hello world" > hello.txt
at> <EOT>
job 4 at Tue Apr 18 09:30:00 2023
  -(saurabh@ LenovoLegion5)-[~/Saurabh/newfolder]
       Tue Apr 18 09:30:00 2023 a saurabh
 —(saurabh⊕ LenovoLegion5)-[~/Saurabh/newfolder]
hello.txt make_file.sh
 -(saurabh® LenovoLegion5)-[~/Saurabh/newfolder]
 $ 1s -1
total 8
rw-r--r-- 1 saurabh saurabh 12 Apr 18 09:30 hello.txt
rwxr-xr-x 1 saurabh saurabh 25 Apr 18 09:22 make file.sh
  -(saurabh@LenovoLegion5)-[~/Saurabh/newfolder]
 $
 28°C
Mostly sunny
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```

Update software to provide required functionality and security : Manage Software (install and uninstall packages) :