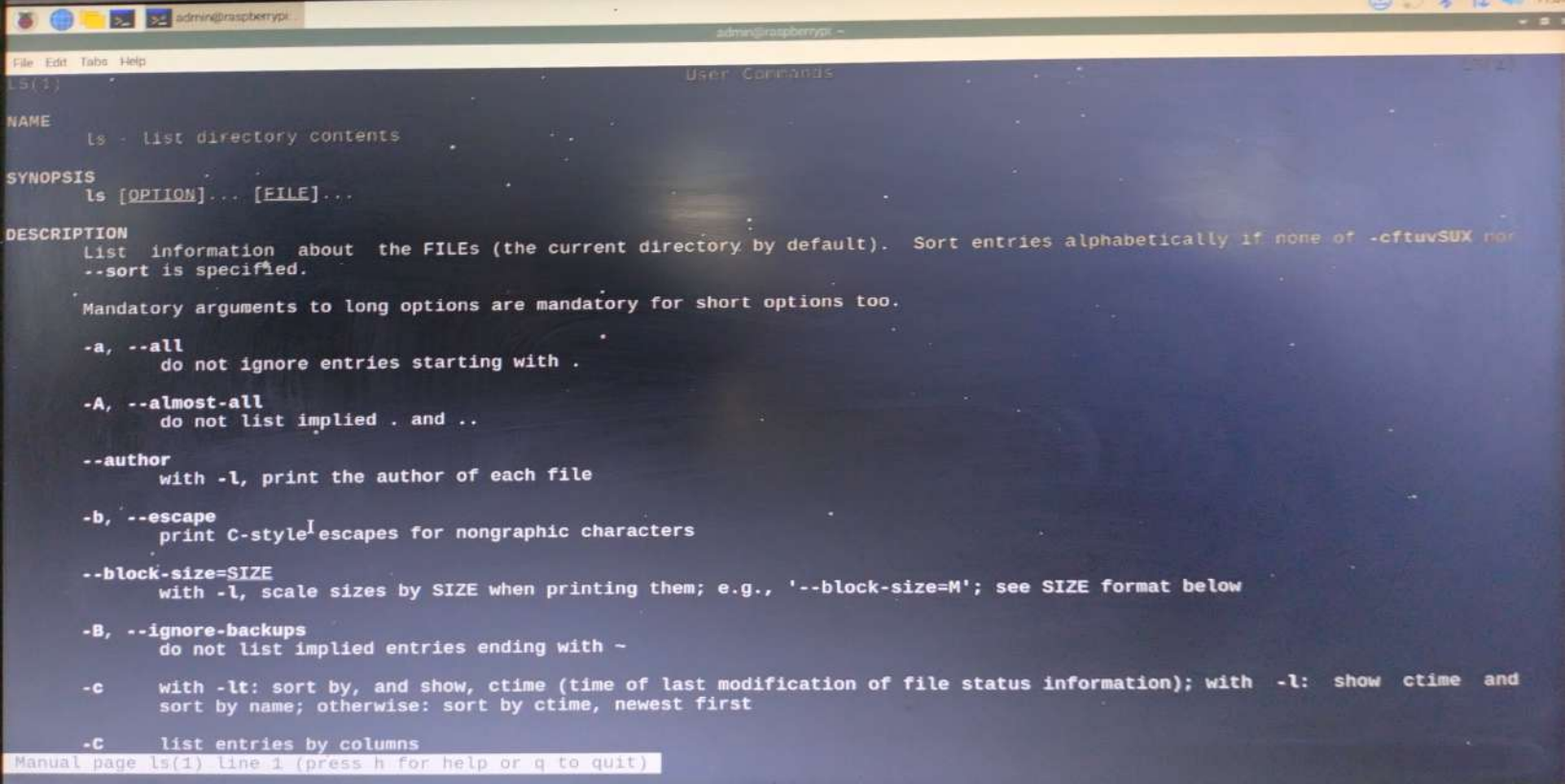


```

File Edit Terminal
admin@raspberrypi:~$ ls
2a.py 2d.py 3c.py Bookshelf Downloads Pictures Public
2b.py 3a.py 3d.py Desktop Music program-1.py Templates
2c.py 3b.py 4a,c.py Documents 'object detection.py' 'program-2 led on off.py' Videos
admin@raspberrypi:~$ cd
admin@raspberrypi:~$ cd /
admin@raspberrypi:/ $ touch a.txt
touch: cannot touch 'a.txt': Permission denied
admin@raspberrypi:/ $ cd /home/admin
admin@raspberrypi:~$ touch a.txt
admin@raspberrypi:~$ ls
2a.py 2d.py 3c.py a.txt Documents 'object detection.py' 'program-2 led on off.py' Videos
2b.py 3a.py 3d.py Bookshelf Downloads Pictures Public
2c.py 3b.py 4a,c.py Desktop Music program-1.py Templates
admin@raspberrypi:~$ mv a.txt /iot
mv: cannot move 'a.txt' to '/iot': Permission denied
admin@raspberrypi:~$ mv a.txt /home/admin/iot
admin@raspberrypi:~$ ls
2a.py 2d.py 3c.py Bookshelf Downloads 'object detection.py' 'program-2 led on off.py' Videos
2b.py 3a.py 3d.py Desktop iot Pictures Public
2c.py 3b.py 4a,c.py Documents Music program-1.py Templates
admin@raspberrypi:~$ cd iot
bash: cd: iot: Not a directory
admin@raspberrypi:~$ cd /home/admin/iot
bash: cd: /home/admin/iot: Not a directory
admin@raspberrypi:~$ rm iot
admin@raspberrypi:~$ ls
2a.py 2d.py 3c.py Bookshelf Downloads Pictures Public
2b.py 3a.py 3d.py Desktop Music program-1.py Templates
2c.py 3b.py 4a,c.py Documents 'object detection.py' 'program-2 led on off.py' Videos
admin@raspberrypi:~$

```



ls(1)

NAME

ls - list directory contents

SYNOPSIS

ls [OPTION]... [FILE]...

DESCRIPTION

List information about the FILES (the current directory by default). Sort entries alphabetically if none of **-cftuvSUX** nor **--sort** is specified.

Mandatory arguments to long options are mandatory for short options too.

-a, --all

do not ignore entries starting with .

-A, --almost-all

do not list implied . and ..

--authorwith **-l**, print the author of each file**-b, --escape**print C-style¹escapes for nongraphic characters**--block-size=SIZE**with **-l**, scale sizes by SIZE when printing them; e.g., '**--block-size=M**'; see SIZE format below**-B, --ignore-backups**

do not list implied entries ending with ~

-cwith **-lt**: sort by, and show, ctime (time of last modification of file status information); with **-l**: show ctime and sort by name; otherwise: sort by ctime, newest first**-C** list entries by columns

```
admin@raspberrypi:~$ man
What manual page do you want?
For example, try 'man man'.
```

```
admin@raspberrypi:~$ man ls
```

```
admin@raspberrypi:~$ mkdir iot
```

```
admin@raspberrypi:~$ ls
```

```
2a.py 2d.py 3c.py Bookshelf Downloads 'object detection.py' 'program-2 led on off.py' Videos
2b.py 3a.py 3d.py Desktop Pictures Public
2c.py 3b.py 4a,c.py Documents Music program-1.py Templates
```

```
admin@raspberrypi:~$ rmdir iot
```

```
admin@raspberrypi:~$ ls
```

```
2a.py 2d.py 3c.py Bookshelf Downloads Pictures Public
2b.py 3a.py 3d.py Desktop Music program-1.py Templates
2c.py 3b.py 4a,c.py Documents 'object detection.py' 'program-2 led on off.py' Videos
```

```
admin@raspberrypi:~$ touch abc.txt
```

```
admin@raspberrypi:~$ touch abcd.txt
```

```
admin@raspberrypi:~$ tar -cvf archive.tar abc.txt abcd.txt
```

```
abc.txt
```

```
abcd.txt
```

```
admin@raspberrypi:~$ ls
```

```
2a.py 2d.py 3c.py abcd.txt Bookshelf Downloads Pictures Public
2b.py 3a.py 3d.py abc.txt Desktop Music program-1.py Templates
2c.py 3b.py 4a,c.py archive.tar Documents 'object detection.py' 'program-2 led on off.py' Videos
```

```
admin@raspberrypi:~$ gzip abcd.txt
```

```
admin@raspberrypi:~$ ls
```

```
2a.py 2d.py 3c.py abcd.txt.gz Bookshelf Downloads Pictures Public
2b.py 3a.py 3d.py abc.txt Desktop Music program-1.py Templates
2c.py 3b.py 4a,c.py archive.tar Documents 'object detection.py' 'program-2 led on off.py' Videos
```

```
admin@raspberrypi:~$ cat abc.txt
```

```
admin@raspberrypi:~$ cat 2a.py
```

```
name = ("Ram:")
```

```
print("Hello", name + "!")admin@raspberrypi:~$ more 3d.py
```

```
file_path = ("Enter the file path:")
```

```
try:
```

```
    with open(file_path,'r') as file:
```

```
        line_number = 1
```

```
        for line in file:
```

```
            words = line.strip().split()
```

```
file_path = ("Enter the file path:")
```

```
try:  
    with open(file_path, 'r') as file:
```

```
        line_number = 1  
        for line in file:
```

```
            words = line.strip().split()  
            word_count = len(words)
```

```
            print(f"Line{line_number}:{word_count}words")
```

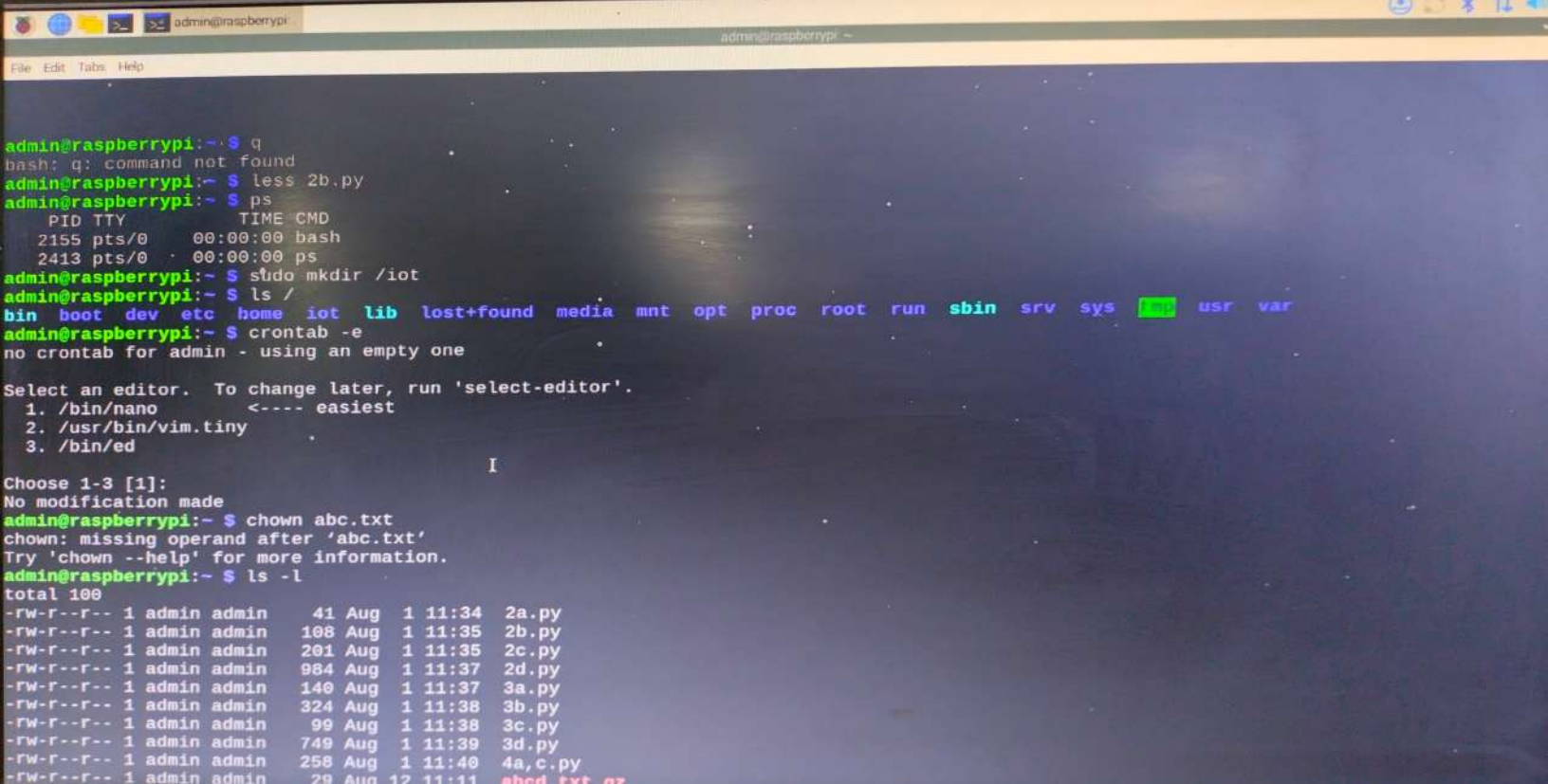
```
        line_number += 1
```

```
except FileNotFoundError:
```

```
    print("Error:File Not found.Please check the file path.")
```

```
except Exception as e:
```

```
    print(f"An error occurred:{e}")
```

File Edit Tabs Help

```
-rw-r--r-- 1 admin admin 256 Aug 1 11:33 program-2 led on off.py
drwxr-xr-x 2 admin admin 4096 Aug 1 10:18 Public
drwxr-xr-x 2 admin admin 4096 Aug 1 10:18 Templates
drwxr-xr-x 2 admin admin 4096 Aug 1 10:18 Videos
admin@raspberrypi:~$ sudo chown root abc.txt
admin@raspberrypi:~$ ls -l abc.txt
-rw-r--r-- 1 root admin 0 Aug 12 11:10 abc.txt
admin@raspberrypi:~$ sudo chgrp root abc.txt
admin@raspberrypi:~$ ls -l abc.txt
-rw-r--r-- 1 root root 0 Aug 12 11:10 abc.txt
admin@raspberrypi:~$ ip addr show
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether d8:3a:dd:14:61:a3 brd ff:ff:ff:ff:ff:ff
    inet 172.17.12.6/20 brd 172.17.15.255 scope global dynamic noprefixroute eth0
        valid_lft 5065sec preferred_lft 5065sec
    inet6 fe80::1ff4:82be:99f2:741d/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: wlan0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc pfifo_fast state DOWN group default qlen 1000
    link/ether d8:3a:dd:14:61:a5 brd ff:ff:ff:ff:ff:ff
admin@raspberrypi:~$ ping 172.17.12.6
PING 172.17.12.6 (172.17.12.6) 56(84) bytes of data.
64 bytes from 172.17.12.6: icmp_seq=1 ttl=64 time=0.081 ms
64 bytes from 172.17.12.6: icmp_seq=2 ttl=64 time=0.056 ms
64 bytes from 172.17.12.6: icmp_seq=3 ttl=64 time=0.120 ms
64 bytes from 172.17.12.6: icmp_seq=4 ttl=64 time=0.119 ms
64 bytes from 172.17.12.6: icmp_seq=5 ttl=64 time=0.068 ms
^C
--- 172.17.12.6 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4090ms
rtt min/avg/max/mdev = 0.056/0.088/0.120/0.026 ms
admin@raspberrypi:~$ ls -l abc.txt
```