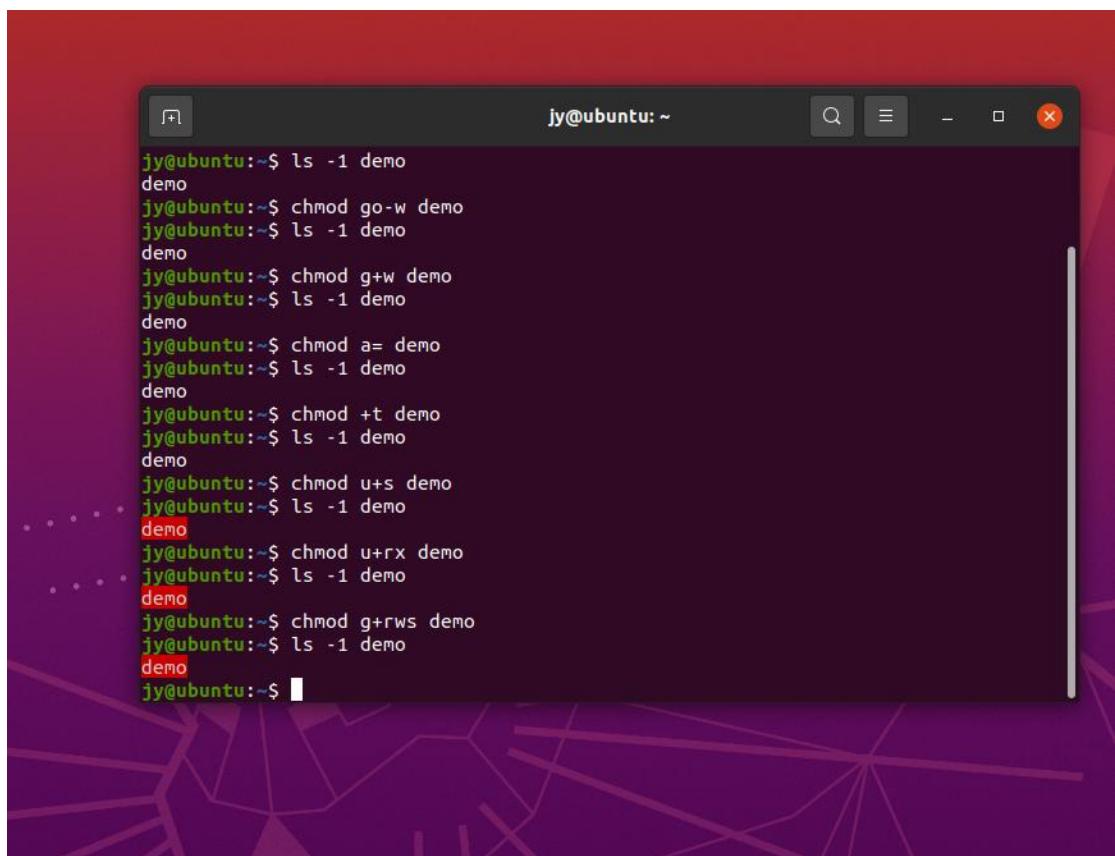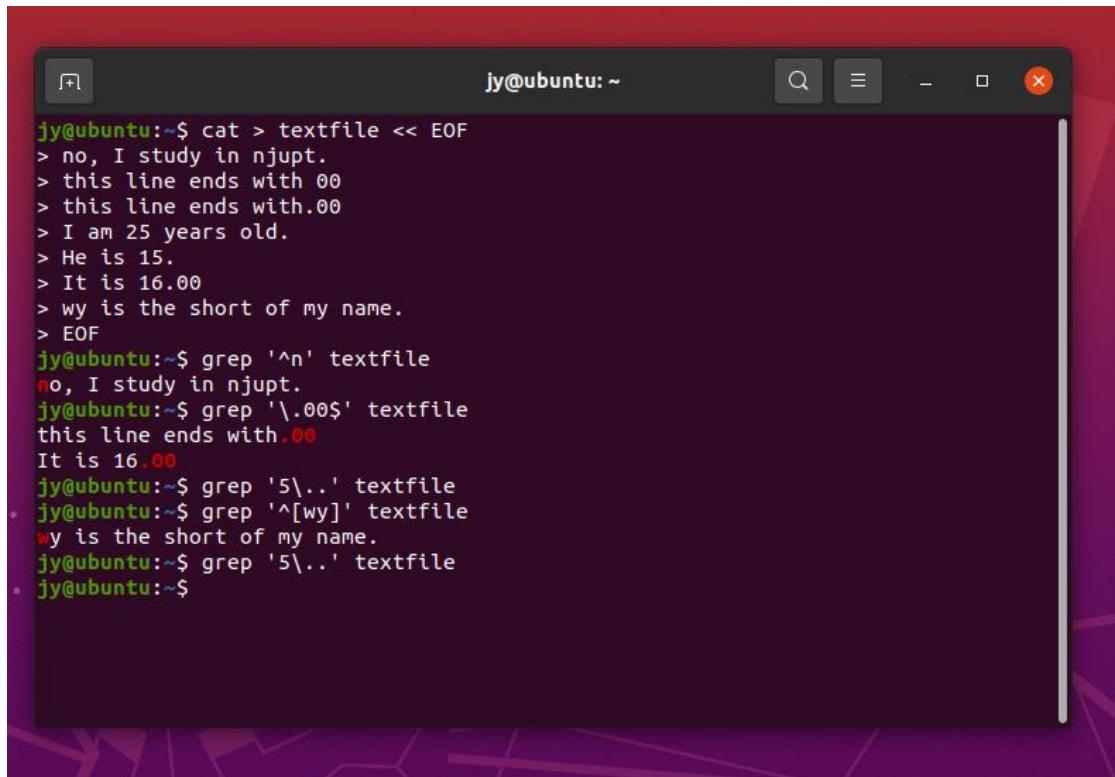```
jy@ubuntu:~$ cd ~
jy@ubuntu:~$ touch juyang.txt
jy@ubuntu:~$ ls
c1.c c3.o   ep2.sh ex3.1.save   juyang.txt Q23010326
c1.o Desktop   ep3.sh exp3.1.save makefile   Templates
c2.c Documents ep4.sh exp3.sh   Music   Videos
c2.o Downloads ep5.sh hello2   Pictures   xep3.txt
c3.c ep2   ex3.1   hello3   Public
jy@ubuntu:~$ echo"hello word" > juyang.txt
echohello word: command not found
jy@ubuntu:~$ echo "hello word" > juyang.txt
jy@ubuntu:~$ cat juyang.txt
hello word
jy@ubuntu:~$ cp juyang.txt juyang2.txt
jy@ubuntu:~$ mv juyang.txt Q2310326.txt
jy@ubuntu:~$ ls
c1.c c3.o   ep2.sh ex3.1.save   juyang2.txt Q23010326
c1.o Desktop   ep3.sh exp3.1.save makefile   Q2310326.txt
c2.c Documents ep4.sh exp3.sh   Music   Templates
c2.o Downloads ep5.sh hello2   Pictures   Videos
c3.c ep2   ex3.1   hello3   Public   xep3.txt
jy@ubuntu:~$
```
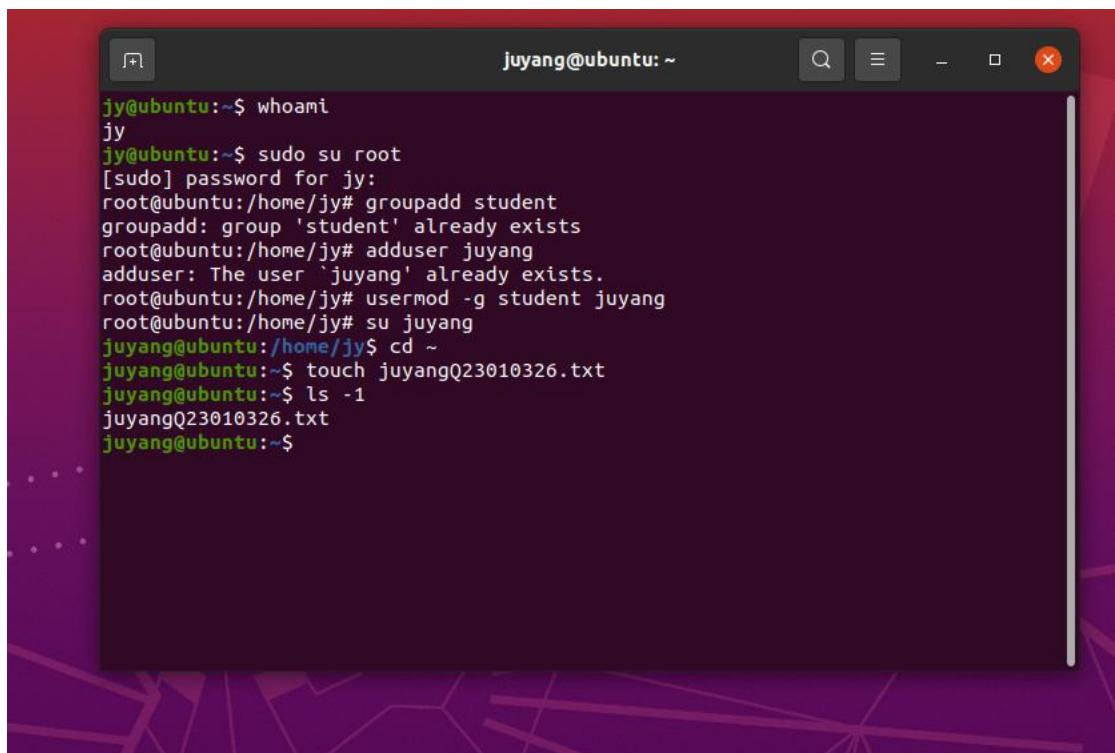
```
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod go-w demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod g+w demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod a= demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod +t demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod u+s demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod u+rx demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$ chmod g+rws demo
jy@ubuntu:~$ ls -1 demo
demo
jy@ubuntu:~$
```

```
jy@ubuntu:~$ cat > textfile << EOF
> no, I study in njupt.
> this line ends with 00
> this line ends with.00
> I am 25 years old.
> He is 15.
> It is 16.00
> wy is the short of my name.
> EOF
jy@ubuntu:~$ grep '^n' textfile
no, I study in njupt.
jy@ubuntu:~$ grep '\.00$' textfile
this line ends with.00
It is 16.00
jy@ubuntu:~$ grep '5\..' textfile
jy@ubuntu:~$ grep '^[wy]' textfile
wy is the short of my name.
jy@ubuntu:~$ grep '5\..' textfile
jy@ubuntu:~$
```
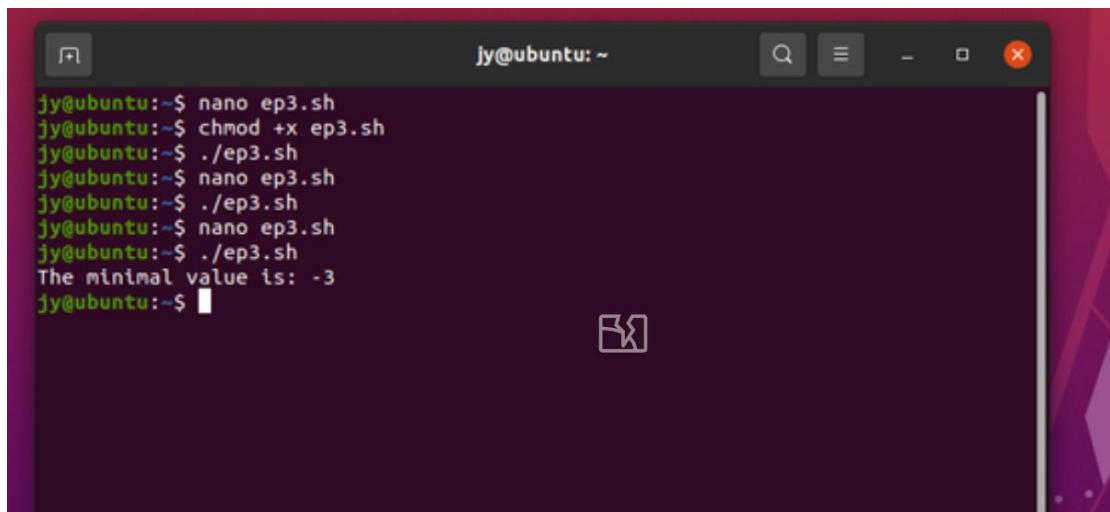
```
jy@ubuntu:~$ whoami
jy
jy@ubuntu:~$ sudo su root
[sudo] password for jy:
root@ubuntu:/home/jy# groupadd student
groupadd: group 'student' already exists
root@ubuntu:/home/jy# adduser juyang
adduser: The user `juyang' already exists.
root@ubuntu:/home/jy# usermod -g student juyang
root@ubuntu:/home/jy# su juyang
juyang@ubuntu:/home/jy$ cd ~
juyang@ubuntu:~$ touch juyangQ23010326.txt
juyang@ubuntu:~$ ls -1
juyangQ23010326.txt
juyang@ubuntu:~$
```
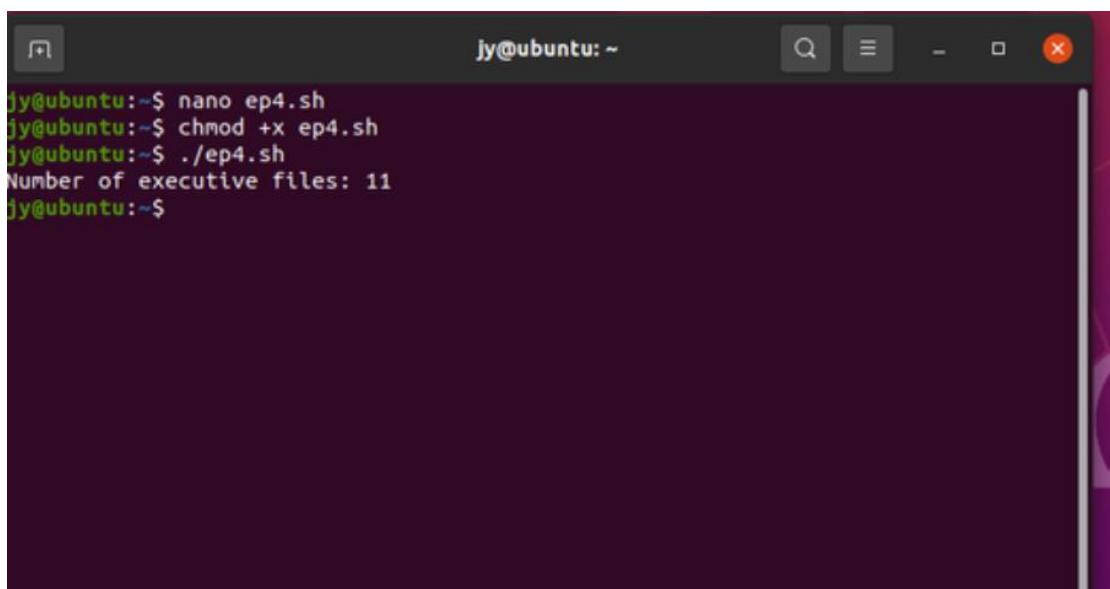
```
jy@ubuntu:~$ cd ~
jy@ubuntu:~$ mkdir others
jy@ubuntu:~$ cd others
jy@ubuntu:~/others$ touch file1.txt file2.txt
jy@ubuntu:~/others$ cd ~
jy@ubuntu:~$ tar -czvf backup.tar.gz others/
others/
others/file1.txt
others/file2.txt
jy@ubuntu:~$ ls -1
backup.tar.gz
c1.c
c1.o
c2.c
c2.o
c3.c
c3.o
demo
Desktop
Documents
Downloads
ep2
ep2.sh
ep3.sh
ep4.sh
ep5.sh
ex3.1
ex3.1.save
exp3.1.save
exp3.sh
hello2
hello3
juyang2.txt
makefile
Music
others
Pictures
Public
Templates
Videos
xep3.txt
jy@ubuntu:~$
jy@ubuntu:~$ tar -czvf backup.tar.gz
tar: Cowardly refusing to create an empty archive
Try 'tar --help' or 'tar --usage' for more information.
jy@ubuntu:~$ tar -xzvf backup.tar.gz
others/
others/file1.txt
others/file2.txt
jy@ubuntu:~$ ls -1
backup.tar.gz
c1.c
c1.o
c2.c
c2.o
c3.c
c3.o
demo
Desktop
Documents
Downloads
ep2
```

```
jy@ubuntu:~$ #!/bin/bash
jy@ubuntu:~$ hour=$(date +%H)
jy@ubuntu:~$ case $hour in
>     0[1-9] | 1[01] )
>          echo "早上好！！"
>          ;;
>     1[2-7] )
>          echo "下午好！！"
>          ;;
>     * )
>          echo "晚上好！！"
>          ;;
> esac
晚上好！！
jy@ubuntu:~$
```
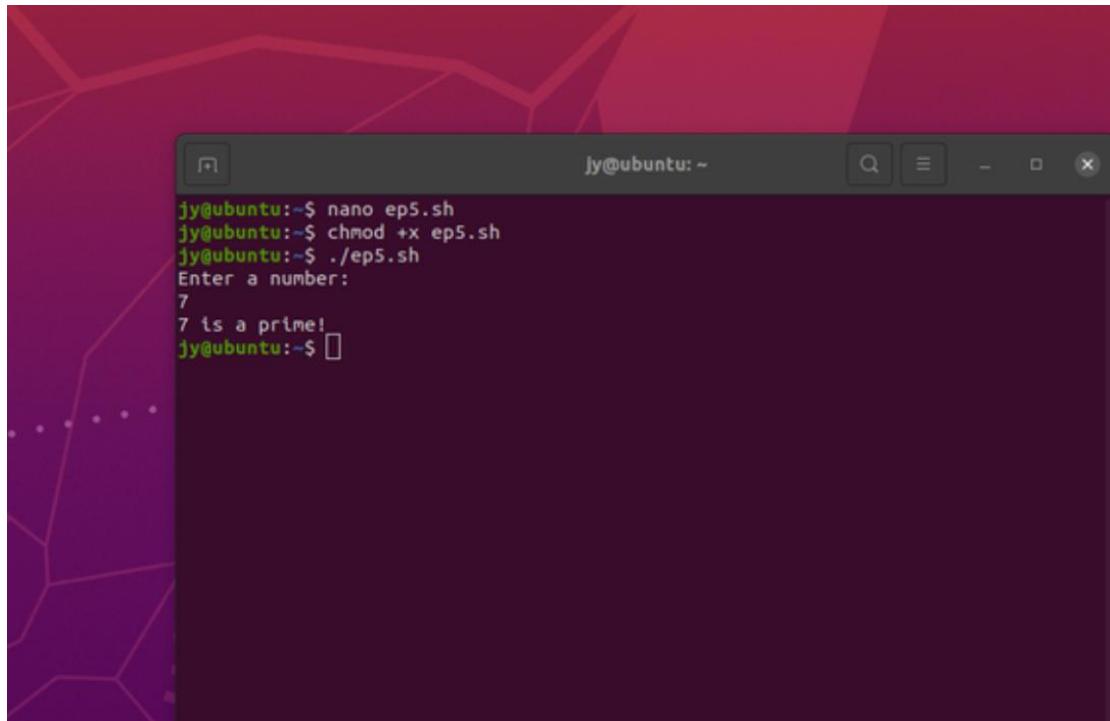
```
jy@ubuntu:~$ nano ep2.sh
jy@ubuntu:~$ chmod +x ep2.sh
jy@ubuntu:~$ ./ep2.sh
Enter the first integer:
33
Enter the second integer:
44
33 is less than 44
jy@ubuntu:~$
```

```
jy@ubuntu:~$ nano ep3.sh
jy@ubuntu:~$ chmod +x ep3.sh
jy@ubuntu:~$ ./ep3.sh
jy@ubuntu:~$ nano ep3.sh
jy@ubuntu:~$ ./ep3.sh
jy@ubuntu:~$ nano ep3.sh
jy@ubuntu:~$ ./ep3.sh
The minimal value is: -3
jy@ubuntu:~$
```

```
jy@ubuntu:~$ nano ep4.sh
jy@ubuntu:~$ chmod +x ep4.sh
jy@ubuntu:~$ ./ep4.sh
Number of executive files: 11
jy@ubuntu:~$
```
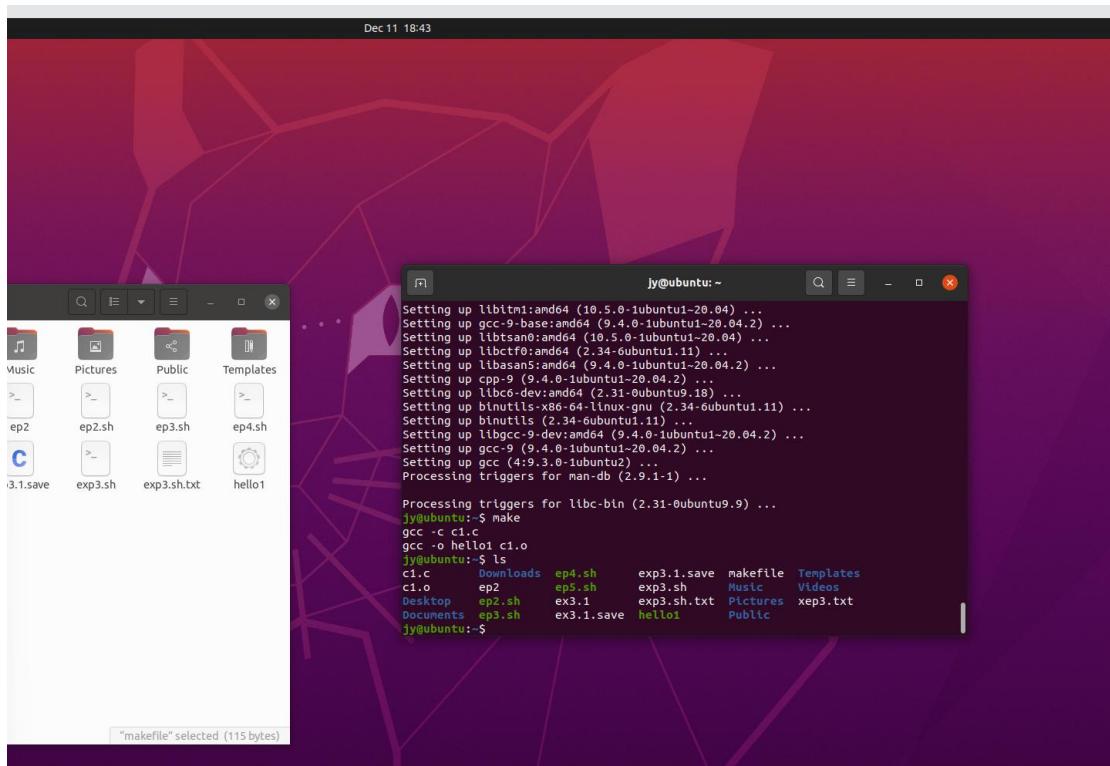
```
jy@ubuntu:~$ nano ep5.sh
jy@ubuntu:~$ chmod +x ep5.sh
jy@ubuntu:~$ ./ep5.sh
Enter a number:
7
7 is a prime!
jy@ubuntu:~$
```


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```
Setting up libitm1:amd64 (10.5.0-1ubuntu1~20.04) ...
Setting up gcc-9-base:amd64 (9.4.0-1ubuntu1~20.04.2) ...
Setting up libtsan0:amd64 (10.5.0-1ubuntu1~20.04) ...
Setting up libctf0:amd64 (2.34-6ubuntu1.11) ...
Setting up libasan5:amd64 (9.4.0-1ubuntu1~20.04.2) ...
Setting up cpp-9 (9.4.0-1ubuntu1~20.04.2) ...
Setting up libc6-dev:amd64 (2.31-0ubuntu9.18) ...
Setting up binutils-x86-64-linux-gnu (2.34-6ubuntu1.11) ...
Setting up binutils (2.34-6ubuntu1.11) ...
Setting up libgcc-9-dev:amd64 (9.4.0-1ubuntu1~20.04.2) ...
Setting up gcc-9 (9.4.0-1ubuntu1~20.04.2) ...
Setting up gcc (4:9.3.0-1ubuntu2) ...
Processing triggers for man-db (2.9.1-1) ...

Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
jy@ubuntu:~$ make
gcc -c c1.c
gcc -o hello1 c1.o
jy@ubuntu:~$ ls
c1.c        Downloads   ep4.sh      exp3.1.save   makefile    Templates
c1.o        ep2         ep5.sh      exp3.sh       Music       Videos
Desktop     ep2.sh      ex3.1       exp3.sh.txt   Pictures    xep3.txt
Documents   ep3.sh      ex3.1.save  hello1        Public
jy@ubuntu:~$
```

Music   Pictures   Public   Templates

ep2   ep2.sh   ep3.sh   ep4.sh

3.1.save   exp3.sh   exp3.sh.txt   hello1

"makefile" selected (115 bytes)

```
jy@ubuntu:~$ make
gcc -c c2.c
gcc -o hello2 c2.o
jy@ubuntu:~$
```

```
jy@ubuntu:~$ nano makefile
jy@ubuntu:~$ mamo c3.c

Command 'mamo' not found, did you mean:

  command 'mame' from snap mame (mame0282)
  command 'mako' from deb mako-notifier (1.4-1)
  command 'mame' from deb mame (0.220+dfsg.1-1)

See 'snap info <snapname>' for additional versions.

jy@ubuntu:~$ nano c3.c
jy@ubuntu:~$ make
gcc -c c3.c
gcc -o hello3 c3.o
jy@ubuntu:~$
```