The running output for the specified example:
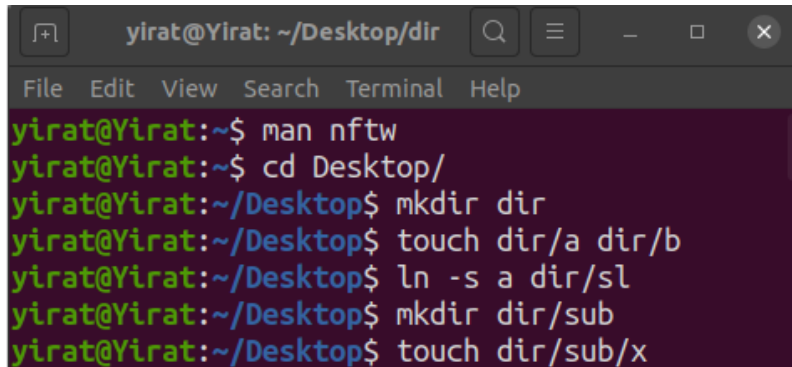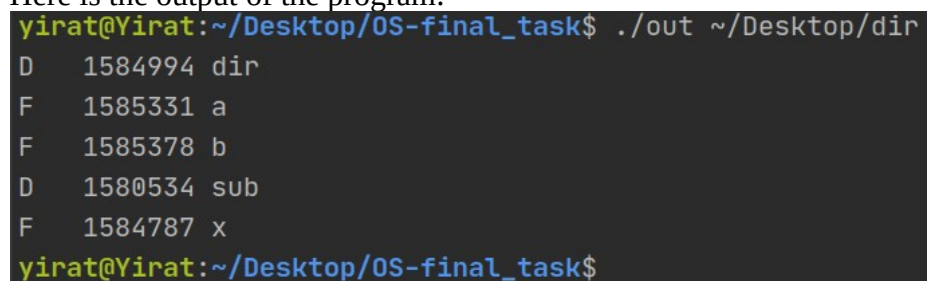
At first, we created the directories and files according to the commands brought by the lecturer:

```
yirat@Yirat: ~/Desktop/dir
File  Edit  View  Search  Terminal  Help
yirat@Yirat:~$ man nftw
yirat@Yirat:~$ cd Desktop/
yirat@Yirat:~/Desktop$ mkdir dir
yirat@Yirat:~/Desktop$ touch dir/a dir/b
yirat@Yirat:~/Desktop$ ln -s a dir/sl
yirat@Yirat:~/Desktop$ mkdir dir/sub
yirat@Yirat:~/Desktop$ touch dir/sub/x
```

Then, we ran the program on the "dir" directory.
Here is the output of the program:

```
yirat@Yirat:~/Desktop/OS-final_task$ ./out ~/Desktop/dir
D    1584994 dir
F    1585331 a
F    1585378 b
D    1580534 sub
F    1584787 x
yirat@Yirat:~/Desktop/OS-final_task$
```

Now, to know that the output is correct, we ran the "stat" command:

As we can see, the stat command shows us, among other things, the file name (in the yellow square), the file type (in the green square), and the Inode of the file (in the red square).
Now, we knows that the output is correct:
All file types appear in the output except for the "sl" file, whose type is symbolic link (which we were asked not to print).