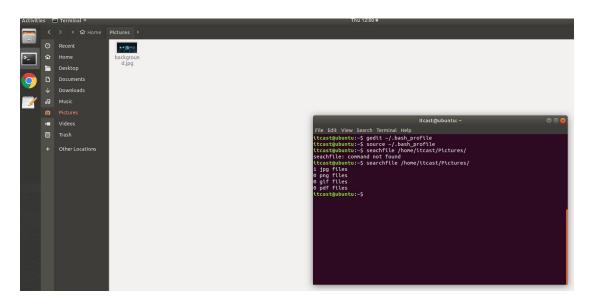
## 2. Practice

2-1. 统计文件

写一个名为 searchfile 的命令行程序,接收一个命令 行参数,参数为一个目录,统计这个目录下有多少个图 片文件(只考虑 jpg, png, gif, pdf 这几种类型的文件), 你的代码应该能够处理以下的问题。

本题代码在 searchfile. sh 和 searchfile. py 里面

1. 分类列出文件的个数



2. 这个程序是否可以在 Linux 和 Windows 下都能正确 运行?

Searchfile.py 能在 linux 和 Windows 下正常运行。 searchfile.sh 能在 Linux 下运行 3. 如果把 searchfile 封装成一个函数,那么在多线程环境下,是否能正确运行?

## Python 文件能

4. 软链或者快捷方式接怎么处理?

注意: 不能使用walkFileTree, os.walk 这类直接遍历

## 创建图片路径软连接:

ln -s 路径 pictures

searchfile.sh 文件在 bash\_profile 中用 alias 命名为:

Alias='路径+searchfile.sh'

然后: source ~/.bash profile

## 见下图

```
##/bin/bash

path=$1

#echo $1

function search {
    cd $0
        num_jog=`ls |grep -i '.*jpg' | wc -l`
        num_gfs-`ls |grep -i '.*pfg' | wc -l`
        num_gfs-`ls |grep -i '.*gff' | wc -l`
        num_gfs-`ls |grep -i '.*gff' | wc -l`
        num_gfs-`ls |grep -i '.*gff' | wc -l`
        echo "Snum_pg pg files"
        echo "Snum_gf pg ffles"
        echo "Snum_gf pd ffles"
        echo "Snum_pdf pdf files"
        echo "Snum_pdf pdf files"
        echo "Snum_pdf pdf files"
```

```
File Edit View Search Terminal Help

ttcast@ubuntu:-$ In -s /home/itcast/P

Pictures/ Public/ PycharmProjects/

ttcast@ubuntu:-$ In -s /home/itcast/Pictures/ picture

ttcast@ubuntu:-$ Is -s /home/itcast/Pictures/ picture

ttcast@ubuntu:-$ Is -l

anaconda3 ClionProjects Desktop devtools Documents Downloads examples.desktop Music notebook picture

Pictures Public PycharmProjects searchfile.sh snap software Templates udacity Videos

ttcast@ubuntu:-$ Is -l

total 80

drwxr-wr. × 26 ttcast itcast 4096 Dec 30 07:15 anaconda3

drwxrwxr-x × 2 ttcast itcast 4095 Jan 2 20 6:17 Desktop

drwxr-xr-x 2 ttcast itcast 4096 Jan 2 20 6:17 Desktop

drwxr-xr-x 2 ttcast itcast 4096 Dec 11 16:05 Documents

drwxr-xr-x 2 ttcast itcast 4096 Dec 11 16:05 Documents

drwxr-xr-x 2 2 ttcast itcast 4096 Dec 11 16:05 Documents

drwxr-xr-x 2 2 ttcast itcast 4096 Jan 2 81:42 Downloads

drwxr-xr-x 4 ttcast itcast 4096 Jul 30 18:19 Music

drwxr-xr-x 4 ttcast itcast 4096 Jul 30 18:19 Music

drwxr-xr-x 2 ttcast itcast 4096 Jul 30 18:19 Music

drwxr-xr-x 2 ttcast itcast 4096 Jul 30 18:19 Public

drwxr-xr-x 2 ttcast itcast 4096 Dul 30 18:19 Public

drwxr-xr-x 2 ttcast itcast 4096 Dec 25 11:02 PycharmProjects

-rwx------ 1 ttcast itcast 4096 Dec 25 11:02 PycharmProjects

-rwx----- 1 ttcast itcast 4096 Dec 25 11:02 PycharmProjects

-rwx----- 1 ttcast itcast 4096 Dec 25 11:02 PycharmProjects

-rwx----- 1 ttcast itcast 4096 Dec 15 16:25 software

drwx-xr-x 2 ttcast itcast 4096 Dec 15 16:25 software

drwx-xr-x 2 ttcast itcast 4096 Dec 15 16:25 software

drwx-xr-x 2 ttcast itcast 4096 Dec 15 16:25 software

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drwx-xr-x 2 ttcast itcast 4096 Dec 15 16:25 software

drwx-xr-x 2 ttcast itcast 4096 Dec 15 16:25 software

drwx-xr-x 2 ttcast itcast 4096 Dec 16:25 software

dryx-xr-x 2 ttcast itcast 40
```

```
Open▼ 🖭
import os
import argparse
       parser = argparse.ArgumentParser()
       parser.add_argument('--path', type=str, default='/home/itcast/Pictures')
config = parser.parse_args()
path = config.path
       print(path)
       if suffix not in type_dict.keys():
                       continue
               type_dict[suffix] += 1
       for key,values in type_dict.items():
               if values==0:
                       continue
               print(values, key, 'files')
    name
          == '__main__':
```