

1. How do you distinguish between `shutil.copy()` and `shutil.copytree()`?

Answer: `shutil.copy()` will copy a single file and `shutil.copytree()` will copy the entire folder and subfolder and all files in it.

2. What function is used to rename files??

Answer: The `rename()` method can be used to rename files or a directory, `rename` is a function part of the `os` module.

3. What is the difference between the delete functions in the `send2trash` and `shutil` modules?

Answer: The delete function in `send2trash` module will send the files and folders to the recycle bin while delete function in `shutil` module will permanently delete files and folders.

4. `ZipFile` objects have a `close()` method just like `File` objects' `close()` method. What `ZipFile` method is equivalent to `File` objects' `open()` method?

Answer: We can use `zipfile.ZipFile(file, mode='r')` method to open a `ZipFile` to read, or use 'w' mode to overwrite the file from blank, or 'a' to append it.

There is also an `open()` method to read files within the zip file. These can be accessed as follows :-

```
with ZipFile('full_Path_Of_File') as myZip:
    with myZip.open('Text_File.txt') as newFile:
        print(newFile.read())
```

5. Create a programme that searches a folder tree for files with a certain file extension (such as `.pdf` or `.jpg`). Copy these files from whatever location they are in to a new folder.

Answer:

```
import os,shutil
dest = os.getcwd() + '\\test'
source = os.getcwd()
ext=['.pdf','.JPEG','.JPG','.txt','.html']

for e in ext:
    for f in os.listdir(source):
        if f.endswith(e):
            shutil.move(os.path.join(source,f), dest)
```