

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

Answer : The `shutil.copy()` function will copy a single file, while `shutil.copytree()` will copy an entire folder, along with all its contents.

2. What function is used to rename files??

Answer : The `shutil.move()` function is used for renaming files as well as moving them.

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

Answer : The `send2trash` functions will move a file or folder to the recycle bin, while `shutil` functions 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 : The `zipfile.ZipFile()` function is equivalent to the `open()` function; the first argument is the filename, and the second argument is the mode to open the ZIP file in (read, write, or append).

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 :

```
In [14]: 1 import os, shutil
2
3 def filecopy(folder, extensions, destFolder):
4     folder = os.path.abspath(folder)
5     destFolder = os.path.abspath(destFolder)
6     print('looking file in {} for the file with extantion {}'.format(folder, extensions))
7     for folder, subfolder, filename in os.walk(folder):
8         for filename in filenames:
9             name, extension = os.path.splitext(filename)
10            if extension in extensions:
11                fileabpath = foldername+os.path.sep+filename
12                print('file copy {} to {}'.format(fileabpath, destFolder))
13                shutil.copy(fileabpath, destFolder)
14
15 extensions = ['.pdf', '.jpg']
16 folder = 'randomFolder'
17 destFolder = 'selectiveFolder'
18 filecopy(folder, extensions, destFolder)

looking file in C:\Users\avina\Desktop\FSDS\python\Untitled Folder\randomFolder for the file with extantion ['.pdf', '.jpg']
```