

### Question 1.

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

#### Answer 1:

"`shutil.copy()`" will copy a single file. "`shutil.copytree()`" will copy an entire folder and every folder and file contained in it.

### Question 2.

What function is used to rename files??

#### Answer 2:

First import `os` module then use `os.rename()` to rename a file.

### Question 3.

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

#### Answer 3:

`send2trash` sends file to recycle bin and `shutil` module deletes file permanently.

### Question 4.

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

#### Answer 4:

To open or write to a zipfile we use '`w`' as second argument similar to file objects `open()`  
`ZipFile` method is equivalent to `File` objects' `open()` method. For example,

```
import zipfile
newZip = zipfile.ZipFile('new.zip', 'w')
```

### Question 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 5:

```
1 import os, shutil
2
3 def search_and_copy(folder, extensions, destFolder):
4     folder = os.path.abspath(folder)
5     destFolder = os.path.abspath(destFolder)
6     print('searching --> {} for {} file'.format(folder, extensions))
7     for foldername, subfolders, filenames in os.walk(folder):
8         for filename in filenames:
9             name, extension = os.path.splitext(filename)
10            if extension in extensions:
11                fileAbsPath = foldername + os.path.sep + filename
12                print('Coping', fileAbsPath, 'to', destFolder)
13                shutil.copy(fileAbsPath, destFolder)
14
15 extensions = ['.pdf', '.jpg']
16 folder = 'randomfolder'
17 destFolder = 'destination'
18 search_and_copy(folder, extensions, destFolder)
```

```
searching --> C:\Users\Md Sajid\Desktop\Python Basic Assignments\randomfolder for ['.pdf', '.jpg'] file
```