

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('Copying', 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