

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

Ans: `shutil.copy()` : copies contents of a file from one file to another file/folder

`shutil.copytree()` : copies entire contents of a folder to another folder.

2. What function is used to rename files??

Ans: `os.rename()`

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

Ans: Functions in `shutil` module deletes a file permanently, and there is no way to recover a deleted file. Functions in `send2trash` module moves deleted files/directories to a trash folder instead of permanently deleting them, making recovery of accidentally deleted files recoverable.

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

Ans: `zipfile.ZipFile()` function is equivalent to the `open()` function

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

Ans:

```
In [11]: 1 import os
2 import shutil
3
4 def search_copy(folder, extensions, destination):
5     folder = os.path.abspath(folder)
6     destFolder = os.path.abspath(destination)
7     print('Search', folder, 'for extensions', ', '.join(extensions))
8     for foldername, subfolders, filenames in os.walk(folder):
9         for filename in filenames:
10             name, extension = os.path.splitext(filename)
11             if extension in extensions:
12                 fileAbsPath = foldername + os.path.sep + filename
13                 print('Copying', fileAbsPath, 'to', destination)
14                 shutil.copy(fileAbsPath, destination)
15
16 extensions = ['.php', '.py']
17 folder = 'randomFolder'
18 destination = 'selectiveFolder'
19 search_copy(folder, extensions, destination)
```

Search C:\Users\thejaswini\Desktop\randomFolder for extensions .php, .py