

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

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

2. What function is used to rename files??

Use `rename()` method of an OS module

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

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?

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.

```
import os, shutil
```

```
extensions = ['.pdf', '.jpg']
```

```
folder = 'randomFolder'
```

```
destFolder = 'selectiveFolder'
```

```
def selectiveCopy(folder, extensions, destFolder):
```

```
    folder = os.path.abspath(folder)
```

```
    destFolder = os.path.abspath(destFolder)
```

```
    print('Looking in', folder, 'for files with extensions of', ', '.join(extensions))
```

```
    for foldername, subfolders, filenames in os.walk(folder):
```

```
        for filename in filenames:
```

```
            name, extension = os.path.splitext(filename)
```

```
            if extension in extensions:
```

```
                fileAbsPath = foldername + os.path.sep + filename
```

```
                print('Coping', fileAbsPath, 'to', destFolder)
```

```
shutil.copy(fileAbsPath, destFolder)
```

```
selectiveCopy(folder, extensions, destFolder)
```