

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

Ans:

`shutil.copy()` will copy just a file,

`shutil.copytree()` will copy over directories and all contained folders and files

2. What function is used to rename files?

Ans: Use the `mv` command to move files and directories from one directory to another or to rename a file or directory.

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

Ans:

The `send2trash` functions will move a file or folder to the recycle bin

The `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?

Ans:

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.

Ans:

```
import re
import os
import shutil
```

```
filePdf = re.compile(r"^(.*?)          #text before extension
                    [.]?[p][d][f]      #extension .pdf
                    """, re.VERBOSE)
```

```
def selectiveCopy(fileExtension):
    for pdfFiles in os.listdir("/Users//Desktop/newPDFs"):
        locatedFiles = filePdf.search(pdfFiles)
        if locatedFiles != None:
            print(locatedFiles)
            files_to_copy = os.path.join("/Users/my_user_name/Desktop/newPDFs", pdfFiles)
            shutil.copy(files_to_copy, "/Users/my_user_name/Desktop/oldPDFs")
            print("The following file has been copied " + files_to_copy)
selectiveCopy(filePdf)
```