

## Assignment\_10

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

Ans: The `shutil.copy()` function will copy a single file, while `shutil.copytree()` will copy an entire folder, along with all its contents.

2. What function is used to rename files??

Ans: The `shutil.move()` function is used for renaming files, as well as moving them.

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, 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?

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 into a new folder.

```
import os
import shutil
sourcePath = input('Enter the absolute path of the source folder: ')
fileExtType = input("Enter the type of file to copy (such as .pdf or .jpg): ")
fileExtType = fileExtType.lower()
destPath = input("Enter the absolute path of the destination folder: ")
```

```
for foldername, subfolders, filenames in os.walk(sourcePath):
    for filename in filenames:
        if filename.lower().endswith(fileExtType):
            print(foldername + "\\\" + filename)
            copySourcePath = os.path.join(foldername, filename)
            #print(copySourcePath)
            shutil.copy(copySourcePath, destPath)
        else:
            continue
```