

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

Ans:- `shutil.copy()` will copy a single file where as `shutil.copytree()` will copy an entire folder, every folder and file contained in it.

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2. What function is used to rename files??

Ans:- `os.rename()` function is used to rename files.

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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.

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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).

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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.

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Ans :- import re
import os
import shutil

filePdf = re.compile(r"^(.*)\s" #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)
```

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