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

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?**

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?**

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

The send2trash functions will move a file or folder to the recycle bin, while shutil functions will permanently delete files and folders.

**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 shutil,os |
|  |  |
|  | def selectiveCopy(folder,extensions,destFolder): |
|  | folder=os.path.abspath(folder) |
|  | print(folder) |
|  | destFolder=os.path.abspath(destFolder) |
|  | print(destFolder) |
|  | print('Looking in '+ folder+ ' for files with extensions of ', ','.join(extensions)) |
|  | for foldername,subfolders,filenames in os.walk(folder): |
|  | print("\*\*\*",foldername, "\*\*", subfolders , "\*",filenames) |
|  | for file in filenames: |
|  | name, extension = os.path.splitext(file) |
|  |  |
|  | if extension in extensions: |
|  | fileAbsPath = foldername + os.path.sep + file |
|  | print('Coping', fileAbsPath, 'to', destFolder) |
|  | shutil.copy(fileAbsPath, destFolder) |
|  |  |
|  |  |
|  |  |
|  | print("Current Working Directory " , os.getcwd()) |
|  | os.chdir("C:\\Users\\name") |
|  | extensions=['.py','.txt'] |
|  | folder='Documents\\LeetCode' |
|  | destFolder='Desktop' |
|  | selectiveCopy(folder, extensions, destFolder) |