

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

Solution - 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??

Solution - 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?

Solution - 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?

Solution - 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).

4. 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.

Solution –

```
import os, 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): ').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
```