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

Ans - **shutil.copy()** copies individual files, while **shutil.copytree()** copies entire directory trees.

1. What function is used to rename files??

Ans - The function used to rename files in Python is **os.rename()**, which is part of the **os** module. This function takes two arguments: the current name of the file and the new name you want to give it.

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

Ans - The **send2trash** module's **send2trash()** function sends files or directories to the recycle bin, allowing recovery. **shutil**'s **rmtree()** function permanently deletes directories and their contents.

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 equivalent method in ZipFile objects to File objects' open() method is ZipFile() itself.

When you want to work with a ZIP file, you use **ZipFile()** to open it, similarly to how we use **open()** to open regular files for reading or writing.

1. 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 os

import shutil

def search\_and\_copy(src\_folder, dest\_folder, extension):

if not os.path.exists(dest\_folder):

os.makedirs(dest\_folder)

for root, \_, files in os.walk(src\_folder):

for file in files:

if file.endswith(extension):

shutil.copy(os.path.join(root, file), os.path.join(dest\_folder, file))

search\_and\_copy("source\_folder", "destination\_folder", ".pdf")