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

Ans: shutil.copy() is used for copying individual files, while shutil.copytree() is used for recursively copying entire directory structures. Choosing the appropriate function depends on the specific requirements of your file manipulation tasks.

2. What function is used to rename files??

Ans: To rename files in Python, you can use the os module's os.rename() function. This function allows you to change the name of a file by providing the current file name and the new file name as arguments.

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

Ans: the send2trash module is focused on sending files to the system's trash or recycle bin, providing a safety net for accidental deletions, while the shutil module, including its shutil.rmtree() function, is more suitable for removing entire directory trees.

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 to File objects' open() method in the zipfile module is the zipfile.ZipFile() method. This method allows you to create a ZipFile object, enabling you to work with zip archive files. You can use this object to perform various operations on zip files, such as extracting, adding, or removing files from the archive.

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.

Ans:

import os

import shutil

# Define the source folder and the destination folder

source\_folder = "source\_folder\_path" # Replace with your source folder path

destination\_folder = "destination\_folder\_path" # Replace with your destination folder path

# Define the file extension you want to search for

file\_extension = ".pdf" # Change the extension as needed

# Create the destination folder if it doesn't exist

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

os.makedirs(destination\_folder)

# Walk through the folder tree and copy the files with the specified extension

for foldername, subfolders, filenames in os.walk(source\_folder):

for filename in filenames:

if filename.endswith(file\_extension):

file\_path = os.path.join(foldername, filename)

shutil.copy(file\_path, destination\_folder)

print(f"Copying {filename} to {destination\_folder}")

print("Copy complete.")