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

shutil.copy(): Copies a single file.

shutil.copytree(): Copies an entire directory tree.

1. What function is used to rename files??

The os.rename() function is used to rename files in Python. It allows you to change the name of a file or move it to a different directory

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

send2trash.send2trash(): Moves files and directories to the trash/recycle bin, allowing for potential recovery.

shutil.rmtree(): Permanently deletes directories and their contents, with no recovery option.

4.ZipFile objects have a close() method just like File objects’ close() method. What ZipFile method is equivalent to FileThe ZipFile method equivalent to the File object's open() method is ZipFile(). This method is used to open a ZIP file, allowing you to read from or write to it, much like how open() is used with regular files. objects’ open() method?

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 os

import shutil

def search\_and\_copy\_files(src\_folder, dest\_folder, file\_extension):

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

os.makedirs(dest\_folder)

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

for filename in filenames:

if filename.endswith(file\_extension):

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

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

print(f'Copied: {file\_path} to {dest\_folder}')

# Example usage

source\_folder = 'path/to/source/folder'

destination\_folder = 'path/to/destination/folder'

extension = '.pdf' # Change this to '.jpg' or any other extension you need

search\_and\_copy\_files(source\_folder, destination\_folder, extension)