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

Sol: shutil.copy() is used to copy a single file from one location to other. shutil.copytree() is used to recursively copy an entire directory tree from one location to another.

2. What function is used to rename files??

Sol: The ‘os.rename()’ function is used to rename files.

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

Sol: The send2trash module moves files and directories to the trash or recycle bin instead of permanently deleting them, providing a safety net in case the deletion was unintentional or needs to be undone. shutil modules, on the other hand, permanently deletes files and directories without moving them to the trash, making the deletion irreversible.

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

Sol: yes the ZipFile method is equivalent to File 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.

Sol:

import os

import shutil

def copy\_files\_with\_extension(src\_dir, dest\_dir, extension):

in os.walk(src\_dir):

for filename in files:

if filename.endswith(extension):

src\_path = os.path.join(root, filename)

dest\_path = os.path.join(dest\_dir, filename)

shutil.copy(src\_path, dest\_path)

print(f"Copied {src\_path} to {dest\_path}")

src\_dir = "/path/to/source/directory"

dest\_dir = "/path/to/destination/directory"

extension = ".pdf"

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

os.makedirs(dest\_dir)

copy\_files\_with\_extension(src\_dir, dest\_dir, extension)