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

**Q1 Ans –**

shutil.copy() will copy a single file. However, shutil.copytree() will copy an entire folder and every folder and file contained in it. Calling shutil.copytree(source, destination) will copy the folder at the path source, along with all of its files and subfolders, to the folder at the path destination. The source and destination parameters are both strings.

Both the functions return a string of the path of the copied folder.

2. What function is used to rename files??

**Q2 Ans-**

rename() function of os module is used to rename a file. We can use a loop and os.rename() inside a directory to rename multiple files in a directory.

We can use shutil.move() also to rename multiple files, as well as moving them.

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

**Q3 Ans—**

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?

**Q 4 Ans—**

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).

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.

**Q5 Ans—**

import os

import shutil

src\_loc=r"D:\ineuron\assignments\python\python\_basic\_assignments"

dest\_loc=r"D:\ineuron\assignments\python\newfolder"

for files in os.listdir(src\_loc):

if os.path.splitext(os.path.join(src\_loc,files))[1].lower() in ('.pdf','.txt','.jpeg','.jpg'):

os.rename(os.path.join(src\_loc,files),os.path.join(dest\_loc,files))

print(f"File {files} has been moved to destination location.")