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

Ans- shutil.copy() is used to copy one single file from src to destination and shutil.copytree() is used to copy recursively whole directory

**2. What function is used to rename files??**

Ans - ‘ os.rename() ‘ function allows you to change the name of a file and rename of the file .

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

Ans – send2trash – this function will move a file or folder to the recycle bin

shutil – this function 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?**

**Ans - T**he equivalent method in ZipFile objects to the open() method in File objects is the ZipFile.open() method.

While the open() method in File objects is used to open a file for reading or writing, the ZipFile.open() method in ZipFile objects is used to open a file contained within a ZIP 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

def search\_and\_copy\_files(source\_folder, target\_folder, extension):

for root, dirs, files in os.walk(source\_folder):

for file in files:

if file.endswith(extension):

source\_path = os.path.join(root, file)

target\_path = os.path.join(target\_folder, file)

shutil.copy2(source\_path, target\_path)

print(f"Copied: {source\_path} --> {target\_path}")