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

shutil.copy() copies the file contents of the source file to the destination file or the directory but does not carry over the file metadata

shutil.copytree() copies the entire directory contents to the new location which must not pre-exist

2. What function is used to rename files??

os.reneme()

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

send2trash moves the file to the recycle bin while shutil permanently deletes it

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

zipfile.ZipFile()

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 shutil, os

def searchfile(path,extensions):

    path = os.path.abspath(path)

    filePaths = []

    print("Searching for {} files in {}".format(extensions,path))

    for foldername,subfolders,files in os.walk(path):

        for file in files:

            name, extension = os.path.splitext(file)

            if extension in extensions:

                filePathAbs = foldername + os.path.sep + file

                filePaths.append(filePathAbs)

    return filePaths

def copyFiles(filePaths, destination):

    for filePath in filePaths:

        shutil.copy(filePath, dst=destination)

extensions = ['.docx']

source = 'D:/Programming/FSDS/Assignments'  #input('Enter search folder path: ')

destination = 'D:/Programming/FSDS/Assignments/testfolder'  #input('Enter destination folder path: ')

files = searchfile(source, extensions)

copyFiles(files,destination)