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

**Ans.** The methods shutil.copy() and shutil.copytree() can be distinguished as the shutil.copy() will copy a single file, whereas the shutil.copytree() will copy the entire folder, and the contents.

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

**Ans.**  We can use methods like os.rename, and shutil.move() in order to rename a file.

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

**Ans.** The difference is that in send2trash the file being deleted will be moved to the recyclebin but not completely deleted whereas if you want to delete it permanently we use shutil functions.

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

**Ans.** the method zipfile.ZipFile() is the equivalent method to the file object’s 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.**

**Ans.**

import os, shutil

def selectiveCopy(folder, extensions, destFolder):

folder = os.path.abspath(folder)

destFolder = os.path.abspath(destFolder)

print('Looking in', folder, 'for files with extensions of', ', '.join(extensions))

for foldername, subfolders, filenames in os.walk(folder):

for filename in filenames:

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

if extension in extensions:

fileAbsPath = foldername + os.path.sep + filename

print('Coping', fileAbsPath, 'to', destFolder)

shutil.copy(fileAbsPath, destFolder)

extensions = ['.pdf', '.jpg']

folder = 'randomFolder'

destFolder = 'selectiveFolder'

selectiveCopy(folder, extensions, destFolder)