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

**Answer: The shutil.copy() function is used to copy a single file from one location to another, whereas shutil.copytree() is used to copy an entire directory tree from one location to another.**

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

**Answer: The os.rename() function is used to rename files in Python.**

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

**Answer: The send2trash module sends files and folders to the trash or recycle bin instead of permanently deleting them, while the shutil module's delete functions permanently delete files and folders.**

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

**Answer: The ZipFile constructor method, zipfile.ZipFile(), is equivalent to the open() method of File objects.**

1. **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.**

**Answer: Here's an example program:**

**java**

**import os**

**import shutil**

**source\_folder = '/path/to/source/folder'**

**destination\_folder = '/path/to/destination/folder'**

**file\_extension = '.pdf' # change this to the desired file extension**

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

**for file in files:**

**if file.endswith(file\_extension):**

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

**shutil.copy(file\_path, destination\_folder)**

**This program searches through the source folder and its subdirectories for any files with the specified file extension, and then copies them to the destination folder.**