1. How do you distinguish between shutil.copy() and shutil.copytree()?  
Ans. shutil.copy() is used to copy a single file while shutil.copytree() is used to copy an entire directory tree. It's important to note that shutil.copy() can only copy files and not directories, while shutil.copytree() can copy both files and directories.

2. What function is used to rename files?  
Ans. The os.rename() function is used to rename files in Python.

3. What is the difference between the delete functions in the send2trash and shutil modules?  
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?  
Ans. The ZipFile method that is equivalent to the open() method of File objects is also called open(). The open() method of the ZipFile class is used to open a ZIP file for reading, writing, or appending.

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

sourcePath = input(‘Enter the absolute path of the source folder: ‘)

fileExtType = input(‘Enter the type of file to copy (such as .pdf or .jpg): ‘).lower()

destPath = input(‘Enter the absolute path of the destination folder: ‘)

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

for filename in filenames:

if filename.lower().endswith(fileExtType):

#print(foldername + ‘\\’ + filename)

copySourcePath = os.path.join(foldername, filename)

#print(copySourcePath)

shutil.copy(copySourcePath, destPath)

else:

continue