**Solutions:**

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

Ans:  shutil. copy() will copy a single file, shutil. copytree() will copy an entire folder and every folder and file contained in it.

2. What function is used to rename files??

Ans: rename() method

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.ZipFile() function is equivalent to the open() function; the first argument is the filename, and the second argument is the mode to open the ZIP file in (read, write, or append).

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