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

While 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??

The shutil.move() function is used for renaming files, as well as moving them.

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

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?

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**

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.

| #!/usr/bin/env python3 |  |
| --- | --- |
|  |  |
|  | # Write a program that walks through a folder tree |
|  | # and searches 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 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 = ['.php', '.py'] |
|  | folder = 'randomFolder' |
|  | destFolder = 'selectiveFolder' |
|  | selectiveCopy(folder, extensions, destFolder) |