

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

Ans: The `shutil.copy()` function in Python is used to copy a single file from the source location to the destination location. On the other hand, `shutil.copytree()` is used to copy an entire directory tree (i.e., a folder and all its subfolders and files) from the source location to the destination location.

2. What function is used to rename files??

Ans:- The `os.rename()` function is used to rename files in Python. It takes two arguments: the current name (or path) of the file and the new name (or path).

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

Ans:- The delete functions in the `send2trash` and `shutil` modules serve different purposes. The `send2trash` function will move a file or folder to the Recycle Bin or Trash, allowing you to recover it later if needed. On the other hand, delete functions in the `shutil` module like `shutil.rmtree()` will permanently delete files and directories, making them unrecoverable

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 equivalent of the `open()` method for `File` objects in `ZipFile` objects is `zipfile.ZipFile()`. This method opens a ZIP file, much like how `open()` opens a regular file

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:- Here's a simple Python program that searches for files with a certain extension in a folder tree and copies them to a new folder:

```
import os
```

```
import shutil
```

```
def copy_files(src_folder, dst_folder, extension):
```

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

```
        for filename in filenames:
```

```
            if filename.endswith(extension):
```

```
                shutil.copy(os.path.join(foldername, filename), dst_folder)
```

```
copy_files('/path/to/source', '/path/to/destination', '.jpg')
```