

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

Solution: `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??

Solution: `rename()` method is used for renaming a file or a directory.

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

Solutions: The `sendtrash` functions will move a file or folder to a recycle bin while `shut` functions will permanently delete files or folders.

4. `ZipFile` objects have a `close()` method just like `File` objects' `close()` method. What `ZipFile` method is equivalent to `File` objects' `open()` method?

Solutions: The `zipfile.ZipFile()` function is equivalent to the `open()` function; the first argument is the file name, 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.

Solution:

```
import os
```

```
# This is to get the directory that the program  
# is currently running in.
```

```
dir_path = os.path.dirname(os.path.realpath(__file__))
```

```
for root, dirs, files in os.walk(dir_path):  
    for file in files:
```

```
        # change the extension from '.mp3' to  
        # the one of your choice.  
        if file.endswith('.mp3'):  
            print (root+'/'+str(file))
```