

Assignment 10 Solutions

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

ANS: `shutil.copy()` method is used to copy the contents of a file from one file to another file/folder. It primarily takes two arguments `src` and `dest`.

`shutil.copytree()` function is used to copy the entire contents of a folder to other folder. It also takes two arguments `src` & `dest`.

2. What function is used to rename files?? ¶

ANS: `os.rename()` function is used to rename files or directories using a python program. this function takes two arguments `src` and `dest`. `src` represents the name file/directory which we want to rename, whereas `dest` represents the new name of the file/directory.

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

ANS: `Shutil` module provides a function called as `shutil.rmtree()` which deletes a directory and all of its contents. The other functions with similar functionality are `os.remove()` which removes a file.

Where as `send2trash` module provides a function called `send2trash.send2trash()` to delete a file/directory. These methods moves the files/directories to trash folder instead of permanently deleting them.

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

ANS: `ZipFile` Module provides a method called as `zipfile.ZipFile()` to read and write to zipFiles. it takes arguments such as `filename` and `mode` etc `zipfile.ZipFile('filename', mode = 'r')`

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:

In [2]:

```
1 import os, shutil
2
3 def selectiveCopy(folder, extensions, destFolder):
4     folder = os.path.abspath(folder)
5     destFolder = os.path.abspath(destFolder)
6     print('Looking in', folder, 'for files with extensions of', ', '.join(extensions))
7     for foldername, subfolders, filenames in os.walk(folder):
8         for filename in filenames:
9             name, extension = os.path.splitext(filename)
10            if extension in extensions:
11                fileAbsPath = foldername + os.path.sep + filename
12                print('Coping', fileAbsPath, 'to', destFolder)
13                shutil.copy(fileAbsPath, destFolder)
14
15 extensions = ['.pdf', '.jpg']
16 folder = 'randomFolder'
17 destFolder = 'selectiveFolder'
18 selectiveCopy(folder, extensions, destFolder)
```

Looking in C:\Users\abhik\randomFolder for files with extensions of .pdf, .jpg