

Number 1 -

- Question -

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

- Answer -

"`shutil.copy()`" will copy a single file. "`shutil.copytree()`" will copy an entire folder and every folder and file contained in it.

Number 2 -

- Question -

What function is used to rename files?

- Answer -

`shutil.move` will rename files.

Number 3 -

- Question -

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

- Answer -

`shutil.rmtree()` function irreversibly deletes files and folders. `send2trash` will send folders and files to computer's trash or recycle bin instead of permanently deleting them

Number 4 -

- Question -

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

- Answer -

`ZipFile` method is equivalent to `File` objects' `open()` method. For example,

In [1]:

```
import zipfile
newZip = zipfile.ZipFile('new.zip', 'w')
```

Number 5 -

- Question -

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.

- Answer -

In [2]:

```
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)
```

```
Looking in E:\Study Materials\iNeuron\Full Stack Data Science Course\Class Re
cordings\Module 1 Python\Python Basic Assignment\Solutions\randomFolder for f
iles with extensions of .php, .py
```
