Python Basic- Assignment- 10

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

Answer:

shutil.copy() copies an individual file, while shutil.copytree() copies an entire directory, including all the files, folder and subdirectories contained in it.

2. What function is used to rename files??

Answer:

The os.rename() function is used to rename files.

For example:

```python
import os
pa = input("Enter the path: ")
path = pa+"\\"
path = path.replace("\\","/")
f_name = input("Enter file name: ")
def name_change():
    i = 1
    for fn in os.listdir(path):
        new_name = path+f_name+str(i)+'.jpg'
        old_name = path+fn
        os.rename(old_name,new_name)
        i+=1
name_change()
```

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

Answer:

The delete functions in the send2trash and shutil modules are both used to delete files from the file system.

The main difference between them is that the send2trash module sends *the deleted files to the trash or recycle bin*, while the shutil module *permanently deletes the files*.

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

Answer:

The ZipFile class has a method named 'open()' which is equivalent to the File objects' open() method. The first argument is the filename, and the second argument is the mode to open the ZIP file in (read, write, or append).

(1)

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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 into a new folder.

<u>Answer:</u>

```python
import os
import shutil

directory = 'C:/Users/MAHMUD/Documents'
file_extension = '.pdf'
destination = 'C:/Users/MAHMUD/Documents/copied_files.pdf'
files_in_directory = os.listdir(directory)

for file in files_in_directory:
    if file.endswith(file_extension):
            shutil.copy(os.path.join(directory, file), destination)
```

(2)

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