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

Answer:

1. shutil.copy() – copies the file from the source to destination and returns the path of the copied file.
2. shutil.copytree() – copies an entire directory from source to destination including the sub folders present inside the source directory and returns the path of the destination directory.

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2. What function is used to rename files??

Answer:

1. The function os.rename(source, destination) is used to rename files/folders.
2. The function shutil.move() can also be used to rename files.

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

Answer:

The send2trash function will move the files or folder to the recycle bin whereas the shutil function will remove/deletes it permanently.

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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 function zipfile.ZipFile() can be used to open zip files and modes – r, w, a, x can be used to read, write, append existing file and create new file and write options respectively.

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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 in to a new folder.

Answer:

from shutil import copytree

source = r'/content/drive/MyDrive/Assignments/Source/'

destination = r'/content/drive/MyDrive/Assignments/Destination/'

copytree(source, destination, dirs\_exist\_ok=True)

The above code copies all the files and sub folders from source to destination in one go.

import os

import shutil

def copy\_files\_to(source, destination, extension):

  print('called')

  if not os.path.exists(destination):

    os.makedirs(destination)

    print("Destination folder created")

  for root, \_, files in os.walk(source):

    for file in files:

      if file.endswith(extension):

        src\_path = os.path.join(root, file)

        dst\_path = os.path.join(destination, file)

        shutil.copy2(src\_path, dst\_path)

        print("File copied - ",dst\_path)

src\_folder = r'/content/drive/MyDrive/Assignments/Source'

dst\_folder = r'/content/drive/MyDrive/Assignments/Destination'

ext = ".jpg"

copy\_files\_to(src\_folder, dst\_folder, ext)

The above code searches for all the folders and sub folders in source and copy only .jpg files to the destination folder.

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