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

shutil.copy : Copies 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??

import os

os.rename("text.txt","testnew.txt")

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

Shutil module provides a funciton called as shutil.rmtree() which deletes a directory and all its contents. The other functions with similar functionality are os.remove() -> removes a file, os.rmdir() removes a empty directory. The problem with these functions is once a file is deleted. it will be lost permanently, if a file is deleted accidentally using these methods there is no way we can recover the deleted 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. hence if a file/folder is deleted accidentally it can be still recovered from trash folder, if is deleted using the send2trash.send2trash() function. send2trash is not included with python standard libary like os & shutil modules. it needs to be installed explicitly using the command !pip install send2trash

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

ZipFile Module provides a method called as zipfile.ZipFile() to read and write to zipFiles. it takes arugments lile 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.

# Write a program that walks through a folder tree

# and searches 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.

import os, shutil

def selectiveCopy(source, extensions, destination):

folder = os.path.abspath(source)

destination = os.path.abspath(destination)

print('Looking in', source, 'for files with extensions of', ', '.join(extensions))

for foldername, subfolders, filenames in os.walk(source):

for filename in filenames:

name, extension = os.path.splitext(filename)

if extension in extensions:

fileAbsPath = foldername + os.path.sep + filename

print('Coping', fileAbsPath, 'to', destination)

shutil.copy(fileAbsPath, destination)

extensions = ['.mp4', '.pdf','.jpg']

source = "C:\Users\Shiva000\Desktop"

destination = "C:\Users\Shiva000\Desktop\abc"

selectiveCopy(source, extensions, destination)