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

ANS: 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??

Answer:

import os

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

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

ANS: import shutil

shutil.retree():

The shutil module’s rmtree() function can be used to delete files or folders. But, this function delete the files

permanently.

The operations cannot be undone if there were any accidental deletions performed

import send2trash

send2trash.send2trash() : Using send2trash, we can send files to the Trash or Recycle Bin instead of permanently

deleting them.

If the directory contains files or other folders, those are also deleted. A TrashPermissionError exception is raised,

in case a file could not be deleted due to permission error or any other unexpected reason.

In [ ]:

**import** shutil

**import** send2trash

shutil**.**rmtree("path")

send2trash**.**send2trash("path")

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

ANS: from zipfile import Zipfile

with ZipFile(file\_name, 'r') as zip: -> this code will open specified zipfile for us. we can use zip objext to preform oother operation the ziplife. like zip.read()

In [ ]:

**from** zipfile **import** Zipfile

**with** ZipFile(file\_name, 'r') **as** zip

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: *# 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, destFolder):

folder **=** os**.**path**.**abspath(source)

destFolder **=** os**.**path**.**abspath(destFolder)

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', destFolder)

shutil**.**copy(fileAbsPath, destFolder)

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

source **=** "C:\\Users\\bhanu\\Desktop\\source"

destFolder **=** "C:\\Users\\bhanu\\Desktop\\dest"

selectiveCopy(source, extensions, destFolder)

Looking in C:\Users\bhanu\Desktop\source for files with extensions of .mp4, .pdf, .jpg

Coping C:\Users\bhanu\Desktop\source\450 Hours Nasscom Data Science Program.pdf to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\Adobe Scan 24-Mar-2021.pdf to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\IMG\_20210307\_211259.jpg to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\IMG\_20210308\_114113.jpg to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\Packt.Getting.Started.with.Google.BERT.1838821597.pdf to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\Presentation1 kan 4th feb.mp4 to C:\Users\bhanu\Desktop\dest

Coping C:\Users\bhanu\Desktop\source\Surya Teja - Resume.pdf to C:\Users\bhanu\Desktop\dest