**Python Assignment - 10**

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

**Ans:** The shutil.copy() function will copy a single file, while shutil.copytree() will copy an entire folder, along with all its contents.

2. What function is used to rename files??

**Ans:** The shutil.move() function is used for renaming files, as well as moving them.

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

**Ans:** The send2trash functions will move a file or folder to the recycle bin, while shutil functions will permanently delete files and folders.

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

**Ans**: The zipfile.ZipFile() function is equivalent to the open() function; the first argument is the filename, and the second argument is the mode to open the ZIP file in (read, write, or append).

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: 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)