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

**shutil.copy() copies only a specified file, shutil.copytree() copies the whole directory including all files and folders it contains.**

2. What function is used to rename files??

**shutil.move() used to rename files.**

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

**send2trash will send the file or folder to a recycle bin and shutil will remove it permanently from the system.**

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

**ZipFile() is the equivalent to open() method.**

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.

import os

import shutil

source = 'C:\\Users\\tigju\\Desktop\\api'

destination = 'C:\\Users\\tigju\\Documents\\ineuron\\python\_basic\_assignmemt\\new'

*def* include\_patterns(*pattern*):

    '''

    pass the list of extentions which want to keep

    '''

    all\_ext = set()

    new\_pat = tuple(*pattern*)

    for file in os.listdir(source):

        if file.endswith(new\_pat):

            continue

        else:

            file\_ext = os.path.splitext(file)[1]

            all\_ext.add(file\_ext)

    rem\_ext = ["\*" + ext if len(ext) > 0 else ext for ext in all\_ext]

    return rem\_ext

if \_\_name\_\_ == "\_\_main\_\_":

    rem\_ext = include\_patterns(['.pdf', '.jpg'])

    shutil.copytree(source, destination, *ignore*=shutil.ignore\_patterns(\*rem\_ext))