Python_assignment-10

1) shutil.copy() method is used to copy the contents of a file from one file to another file/folder. It primarily takes two arguments src and dest. Src represents the file to be copied where as destination refers to the file/folder to where the src data should be copied. shutil.copytree() function is used to copy the entire contents of a folder to other folder. It also takes two arguments src & dest. It copies all the content recursively and stores it in dest.

2) os.rename() function is used to rename files or directories using a python program. this function takes two arguments src and dest. Src represents the name file/directory which we want to rename, whereas dest represents the new name of the file/directory.

3) Shutil module provides a funciton called as shutil.rmtree() which deletes a directory and all of its contents. 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.

4) ZipFile Module provides a method called as zipfile. ZipFile() to read and write to zipFiles. it takes aruguments such as 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.

Ans: **import** os
    import shutil
    def search_copy(source,destination,extensions):
      source = os**.**path**.**abspath(source)
      destination = os**.**path**.**abspath(destination)
     for foldername, subfolder, filenames **in** os**.**walk(source):
        print(f'Folder Name ➞ {foldername}',end='\n\n')
        print(f'Sub Folders ➞ {subfolder}',end='\n\n')
        print(f'Files ➞ {filenames}',end='\n\n')
     for filename **in** filenames:
        fileName,extension = os**.**path**.**splitext(filename)
        if extension **in** extensions:
          targetFile = foldername+os**.**path**.**sep+fileName+extension
          shutil**.**copy(targetFile, destination)
          print(f'Files copied successfully from {source} to {destination}')
    extensions = ['.pdf','.jpg','.ipynb']
    source = 'Source Folder'
    destination = 'Destination Folder'
    search_copy(source, destination, extensions)