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

shutil.copy() method in Python is used to copy the content of the source file to the destination file or directory.

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('old_name.txt', 'new_name.txt')

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

shutil.rmtree() function irreversibly deletes files and folders.

send2trash will send folders and files to computer's trash or recycle bin instead of permanently deleting them.

```python
In [ ]:   1  import shutil
          2  import send2trash
          3  shutil.rmtree("path")
          4  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?

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()

```python
In [ ]:   1  from zipfile import Zipfile
          2  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.

```python
In [3]:   1  import os, shutil
          2
          3  def selectiveCopy(folder, extensions, destFolder):
          4      folder = os.path.abspath(folder)
          5      destFolder = os.path.abspath(destFolder)
          6      print('Looking in', folder, 'for files with extensions of', ', '.join(extensions))
          7      for foldername, subfolders, filenames in os.walk(folder):
          8          for filename in filenames:
          9              name, extension = os.path.splitext(filename)
         10              if extension in extensions:
         11                  fileAbsPath = foldername + os.path.sep + filename
         12                  print('Coping', fileAbsPath, 'to', destFolder)
         13                  shutil.copy(fileAbsPath, destFolder)
         14
         15  extensions = ['.pdf', '.jpg']
         16  folder = 'randomFolder'
         17  destFolder = 'selectiveFolder'
         18  selectiveCopy(folder, extensions, destFolder)
```

Looking in C:\Users\upasa\randomFolder for files with extensions of .pdf, .jpg

```
In [ ]:   1
```