Assignment-10

- How do you distinguish between shutil.copy() and shutil.copytree()? shutil.copy() is used for copying individual files, whereas shutil.copytree() is used for copying entire directory trees.
- What function is used to rename files??
 os.rename() function can be used to rename files. This function is part of the built-in os module.
- 3. What is the difference between the delete functions in the send2trash and shutil modules?
 Difference between the delete functions in send2trash and shutil is that shutil permanently deletes files, while send2trash sends files to the operating system's trash or recycle bin, where they can be recovered if necessary.
- 4. ZipFile objects have a close() method just like File objects' close() method. What ZipFile method is equivalent to File objects' open() method?
 The equivalent method to File objects' open() method for ZipFile objects in Python is the ZipFile() constructor.

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 into a new folder. import os import shutil # Define the directory to search for files with a certain extension directory = '/path/to/directory' # Define the destination folder where the files will be copied to destination_folder = '/path/to/destination/folder' # Define the file extension to search for file extension = '.pdf' # Create the destination folder if it doesn't already exist if not os.path.exists(destination folder): os.makedirs(destination folder) # Walk through the directory tree and search for files with the specified extension for root, dirs, files in os.walk(directory): for file in files: if file.endswith(file extension): # Construct the full path to the file file path = os.path.join(root, file) # Copy the file to the destination folder shutil.copy(file path, destination folder) # Print a message to indicate which file was copied print(f"File '{file}' was copied to '{destination folder}'")