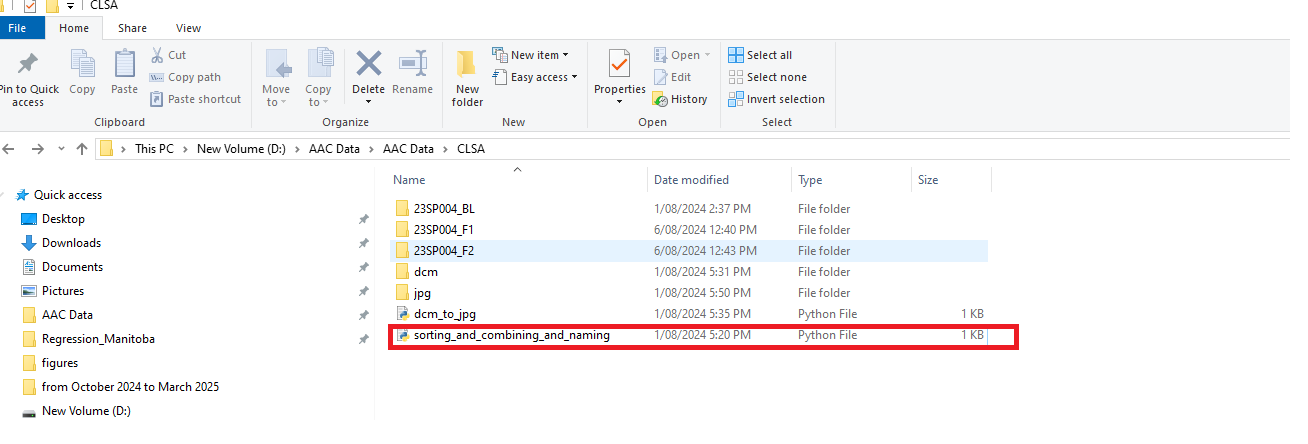
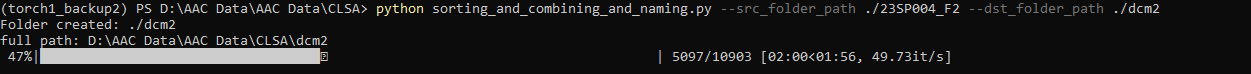
**Steps**

1. For images like CLSA, where there is a problem that patients' IDs are as folder names and the DCM files are named the same e.g. dxa\_lateral in this case, use the file ***sorting\_and\_combining\_and\_naming.py*** by placing it as follows.

****

1. Open the terminal in Linux or PowerShell in Windows and use the following command:

***python sorting\_and\_combining\_and\_naming.py --src\_folder\_path ./23SP004\_F2 --dst\_folder\_path ./ 23SP004\_F2 \_dcm***



1. Next to convert DCM files to jpg use the following command:

***python dcm\_to\_jpg.py --src\_folder\_path ./dcm2 --dst\_folder\_path ./23SP004\_F2\_jpgs --min\_value 0 --max\_value 4096***

Note: It is important to manually check few images of the DICOM files for the maximum and minimum value range for the pixels. If for example, you find a value of 3998 as a maximum value and a minimum value of 0, then you need to select min value =0, and max value =4096 (multiple of 2). DO NOT select as 3998 or 4000.

1. Copy the jpg files to *‘./VerteNet/dataPath/data/test’*.
2. Paste the trained model file at the location *‘./VerteNet/weights\_spinal/model\_last.pth*.’
3. Run the following command:

***python main.py --phase test --dxa\_dataset clsa***

1. You will get a folder with following format:
   1. *clsa\_detailed\_outputs*
      1. *images\_with\_landmarks\_and\_IVGs*
      2. *images\_with\_landmarks\_only*
      3. *images\_with\_offset\_vectors*
      4. *landmarks*
      5. *original\_images*
2. Go *to ‘./VerteNet/dataPath/outputs’* and run the following command:

***python Algorithm\_Aorta\_Clip\_Detection.py --src\_folder\_path VerteNet\_predictions/clsa\_f2\_5000\_detailed\_outputs --dst\_folder\_path clsa --factors\_range\_min 0.9 --factors\_range\_max 1.2 --dpi 150***

A new folder will be generated with following structure:

1. *clsa*
   * 1. *imgs*
     2. *landmarks*
     3. *outputs*
     4. *splines*

*The ‘splines’ folder contains the resultant files with the format ‘Aorta\_Clip\_Flag\_flagstatus\_filename.jpg*