In [1]:
```
!pip install glob2
```

Requirement already satisfied: glob2 in c:\users\hp\.conda\envs\red_mamba\lib\site-pa
ckages (0.7)

In [2]:
```
!pip install pytest-shutil
```

Requirement already satisfied: pytest-shutil in c:\users\hp\.conda\envs\red_mamba\lib
\site-packages (1.7.0)
Requirement already satisfied: six in c:\users\hp\.conda\envs\red_mamba\lib\site-pack
ages (from pytest-shutil) (1.16.0)
Requirement already satisfied: contextlib2 in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (from pytest-shutil) (21.6.0)
Requirement already satisfied: pytest in c:\users\hp\.conda\envs\red_mamba\lib\site-p
ackages (from pytest-shutil) (7.2.2)
Requirement already satisfied: mock in c:\users\hp\.conda\envs\red_mamba\lib\site-pac
kages (from pytest-shutil) (5.0.1)
Requirement already satisfied: path.py in c:\users\hp\.conda\envs\red_mamba\lib\site-
packages (from pytest-shutil) (12.5.0)
Requirement already satisfied: termcolor in c:\users\hp\.conda\envs\red_mamba\lib\sit
e-packages (from pytest-shutil) (2.2.0)
Requirement already satisfied: execnet in c:\users\hp\.conda\envs\red_mamba\lib\site-
packages (from pytest-shutil) (1.9.0)
Requirement already satisfied: path in c:\users\hp\.conda\envs\red_mamba\lib\site-pac
kages (from path.py->pytest-shutil) (16.6.0)
Requirement already satisfied: attrs>=19.2.0 in c:\users\hp\.conda\envs\red_mamba\lib
\site-packages (from pytest->pytest-shutil) (22.1.0)
Requirement already satisfied: tomli>=1.0.0 in c:\users\hp\.conda\envs\red_mamba\lib
\site-packages (from pytest->pytest-shutil) (2.0.1)
Requirement already satisfied: exceptiongroup>=1.0.0rc8 in c:\users\hp\.conda\envs\re
d_mamba\lib\site-packages (from pytest->pytest-shutil) (1.1.1)
Requirement already satisfied: colorama in c:\users\hp\.conda\envs\red_mamba\lib\site
-packages (from pytest->pytest-shutil) (0.4.6)
Requirement already satisfied: packaging in c:\users\hp\.conda\envs\red_mamba\lib\sit
e-packages (from pytest->pytest-shutil) (23.0)
Requirement already satisfied: iniconfig in c:\users\hp\.conda\envs\red_mamba\lib\sit
e-packages (from pytest->pytest-shutil) (2.0.0)
Requirement already satisfied: pluggy<2.0,>=0.12 in c:\users\hp\.conda\envs\red_mamba
\lib\site-packages (from pytest->pytest-shutil) (1.0.0)

In [98]:
```
from glob import glob
import shutil
import os
```

In [85]:
```
import os

desktop_path = os.path.join(os.path.join(os.environ['USERPROFILE']), 'Desktop')

new_folder_path = os.path.join(desktop_path, 'Big_data')
os.mkdir(new_folder_path)

new_file_path1 = os.path.join(new_folder_path, 'dicom_initial')
os.mkdir(new_file_path1)
file_path1 = os.path.join(new_file_path1, 'images')
os.mkdir(file_path1)
for i in range(1, 64):
    folder_name = 'images_spleen_' + str(i)
    folder_path1 = os.path.join(file_path1, folder_name)
```

```
    os.mkdir(folder_path1)
file_path2 = os.path.join(new_file_path1, 'labels')
os.mkdir(file_path2)
for i in range(1, 64):
    folder_name = 'labels_spleen_' + str(i)
    folder_path2 = os.path.join(file_path2, folder_name)
    os.mkdir(folder_path2)

new_file_path2= os.path.join(new_folder_path, 'dicom_final')
os.mkdir(new_file_path2)
file_path1 = os.path.join(new_file_path2, 'images')
os.mkdir(file_path1)
for i in range(1, 64):
    folder_name = 'images_spleen_' + str(i)+"_"+str(i)
    folder_path1 = os.path.join(file_path1, folder_name)
    os.mkdir(folder_path1)
file_path2 = os.path.join(new_file_path2, 'labels')
os.mkdir(file_path2)
for i in range(1, 64):
    folder_name = 'labels_spleen_' + str(i)+"_"+str(i)
    folder_path2 = os.path.join(file_path2, folder_name)
    os.mkdir(folder_path2)

new_file_path3= os.path.join(new_folder_path, 'imagesTr')
os.mkdir(new_file_path3)

new_file_path4 = os.path.join(new_folder_path, 'labelsTr')
os.mkdir(new_file_path4)

new_file_path5= os.path.join(new_folder_path, 'nifti_initial')
os.mkdir(new_file_path5)
file_path1 = os.path.join(new_file_path5, 'images')
os.mkdir(file_path1)
file_path2 = os.path.join(new_file_path5, 'labels')
os.mkdir(file_path2)
```

```
---------------------------------------------------------------------------
FileExistsError                           Traceback (most recent call last)
Cell In[85], line 6
      3 desktop_path = os.path.join(os.path.join(os.environ['USERPROFILE']), 'Deskto
p')
      5 new_folder_path = os.path.join(desktop_path, 'Big_data')
----> 6 os.mkdir(new_folder_path)
      8 new_file_path1 = os.path.join(new_folder_path, 'dicom_initial')
      9 os.mkdir(new_file_path1)

FileExistsError: [WinError 183] Cannot create a file when that file already exists:
'C:\\Users\\HP\\Desktop\\Big_data'
```

In [99]:
```
d_initial="C:/Users/HP/Desktop/Big_data/dicom_initial/labels"
d_final="C:/Users/HP/Desktop/Big_data/dicom_final/labels"
```

In [100…
```
glob(d_initial+"/*")
```

Out[100]:
```
['C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_10',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_13',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_14',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_16',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_17',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_18',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_19',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_2',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_20',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_21',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_22',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_24',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_25',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_26',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_27',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_28',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_29',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_3',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_31',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_32',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_33',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_38',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_40',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_41',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_44',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_45',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_46',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_47',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_49',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_52',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_53',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_56',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_59',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_6',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_60',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_61',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_62',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_63',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_8',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_9']
```

In [101…
```python
i=glob(d_initial+"/*")[1]

print(glob(i+"/*"))
```

```
['C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0001.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0002.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0003.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0004.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0005.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0006.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0007.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0008.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0009.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0010.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0011.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0012.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0013.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0014.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0015.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0016.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0017.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0018.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0019.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0020.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0021.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0022.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0023.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0024.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0025.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0026.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0027.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0028.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0029.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0030.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0031.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0032.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0033.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0034.dcm',
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 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0041.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0042.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0043.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0044.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0045.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0046.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0047.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0048.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0049.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0050.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0051.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0052.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0053.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0054.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0055.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0056.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0057.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0058.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0059.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0060.dcm',
```

```
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0061.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0062.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0063.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0064.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0065.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0068.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0069.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0070.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0074.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0075.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0076.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0077.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0078.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0080.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0081.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0094.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0100.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0101.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0102.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0103.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0104.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0105.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0106.dcm',
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'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0108.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0109.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0110.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0111.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0112.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0113.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0114.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0115.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0116.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0117.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0118.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0119.dcm',
'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0120.dcm',
```

```
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0121.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0122.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0123.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0124.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0125.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0126.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0127.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0128.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0129.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0130.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0131.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0132.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0133.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0134.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0135.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0136.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0137.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0138.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0139.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0140.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0141.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0142.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0143.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0144.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0145.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0146.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0147.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0148.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0149.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0150.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0151.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0152.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0153.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0154.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0155.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0156.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0157.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0158.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0159.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0160.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0161.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0162.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0163.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0164.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0165.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0166.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0167.dcm',
 'C:/Users/HP/Desktop/Big_data/dicom_initial/labels\\labels_spleen_12\\IMG0168.dcm']
```

In [102…
```
print(len(glob(i+"/*")))
```

```
168
```

In [117…
```
parent_folder_path = "C:/Users/HP/Desktop/Big_data/dicom_initial/images"


min_file_count = float("inf")


for folder_name in os.listdir(parent_folder_path):
```

```python
    folder_path = os.path.join(parent_folder_path, folder_name)


    files = glob.glob(os.path.join(folder_path, "*"))


    file_count = len(files)
    print(file_count)


    if file_count < min_file_count:
        min_file_count = file_count

print("Minimum number of files in a subfolder:", min_file_count)
```

```
55
168
77
54
61
95
164
51
90
168
89
148
94
87
65
119
44
103
40
56
104
83
100
93
94
92
112
99
88
61
112
156
33
50
135
97
101
80
60
31
41
Minimum number of files in a subfolder: 31
```

In [121…
```python
from glob import glob
number_of_slice=31

for i in glob(d_initial+"/*"):
    print(i)
    folder_name=os.path.basename(os.path.normpath(i))
    number_of_folder=int(len((glob(i+"/*")))/number_of_slice)
    print(folder_name)
    print(number_of_folder)


    for j in range(1,number_of_folder+1):
        new_dir=os.path.join(d_final,folder_name+"_"+str(j))
        print(new_dir)

        os.mkdir(new_dir)
        k=0
        for l in glob(i+"/*"):
            if k==number_of_slice:
                break

            shutil.copy(l,new_dir)
            k+=1
```

```
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_10
labels_spleen_10
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_10_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_12
labels_spleen_12
5
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_12_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_12_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_12_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_12_4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_12_5
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_13
labels_spleen_13
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_13_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_13_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_14
labels_spleen_14
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_14_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_16
labels_spleen_16
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_16_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_17
labels_spleen_17
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_17_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_17_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_17_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_18
labels_spleen_18
5
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_18_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_18_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_18_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_18_4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_18_5
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_19
labels_spleen_19
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_19_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_2
labels_spleen_2
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_2_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_2_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_20
labels_spleen_20
5
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_20_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_20_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_20_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_20_4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_20_5
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_21
labels_spleen_21
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_21_1
```

```
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_21_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_22
labels_spleen_22
4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_22_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_22_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_22_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_22_4
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_24
labels_spleen_24
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_24_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_24_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_24_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_25
labels_spleen_25
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_25_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_25_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_26
labels_spleen_26
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_26_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_26_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_27
labels_spleen_27
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_27_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_27_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_27_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_28
labels_spleen_28
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_28_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_29
labels_spleen_29
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_29_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_29_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_29_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_3
labels_spleen_3
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_3_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_31
labels_spleen_31
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_31_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_32
labels_spleen_32
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_32_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_32_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_32_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_33
labels_spleen_33
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_33_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_33_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_38
```

```
labels_spleen_38
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_38_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_38_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_38_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_40
labels_spleen_40
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_40_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_40_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_40_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_41
labels_spleen_41
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_41_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_41_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_41_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_44
labels_spleen_44
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_44_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_44_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_45
labels_spleen_45
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_45_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_45_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_45_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_46
labels_spleen_46
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_46_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_46_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_46_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_47
labels_spleen_47
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_47_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_47_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_49
labels_spleen_49
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_49_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_52
labels_spleen_52
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_52_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_52_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_52_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_53
labels_spleen_53
5
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_53_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_53_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_53_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_53_4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_53_5
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_56
labels_spleen_56
1
```

```
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_56_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_59
labels_spleen_59
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_59_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_6
labels_spleen_6
4
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_6_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_6_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_6_3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_6_4
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_60
labels_spleen_60
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_60_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_60_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_60_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_61
labels_spleen_61
3
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_61_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_61_2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_61_3
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_62
labels_spleen_62
2
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_62_1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_62_2
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_63
labels_spleen_63
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_63_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_8
labels_spleen_8
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_8_1
C:/Users/HP/Desktop/Big_data/dicom_initial/labels\labels_spleen_9
labels_spleen_9
1
C:/Users/HP/Desktop/Big_data/dicom_final/labels\labels_spleen_9_1
```

In [122…
```
!pip install dicom2nifti
```

```
Requirement already satisfied: dicom2nifti in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (2.4.8)
Requirement already satisfied: scipy in c:\users\hp\.conda\envs\red_mamba\lib\site-pa
ckages (from dicom2nifti) (1.10.1)
Requirement already satisfied: pydicom>=2.2.0 in c:\users\hp\.conda\envs\red_mamba\li
b\site-packages (from dicom2nifti) (2.3.1)
Requirement already satisfied: numpy in c:\users\hp\.conda\envs\red_mamba\lib\site-pa
ckages (from dicom2nifti) (1.24.2)
Requirement already satisfied: nibabel in c:\users\hp\.conda\envs\red_mamba\lib\site-
packages (from dicom2nifti) (5.1.0)
Requirement already satisfied: python-gdcm in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (from dicom2nifti) (3.0.21)
Requirement already satisfied: packaging>=17 in c:\users\hp\.conda\envs\red_mamba\lib
\site-packages (from nibabel->dicom2nifti) (23.0)
Requirement already satisfied: importlib-resources>=1.3 in c:\users\hp\.conda\envs\re
d_mamba\lib\site-packages (from nibabel->dicom2nifti) (5.2.0)
Requirement already satisfied: zipp>=3.1.0 in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (from importlib-resources>=1.3->nibabel->dicom2nifti) (3.11.0)
```

In [125…
```python
import dicom2nifti as dn
```

In [128…
```python
dicom_path="C:/Users/HP/Desktop/Big_data/dicom_final/labels/*"
nifti_path="C:/Users/HP/Desktop/Big_data/nifti_initial/labels"
```

In [129…
```python
folder_list=glob(dicom_path)
print(folder_list)
```

```
['C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_10_1', 'C:/Users/HP/
Desktop/Big_data/dicom_final/labels\\labels_spleen_12_1', 'C:/Users/HP/Desktop/Big_da
ta/dicom_final/labels\\labels_spleen_12_2', 'C:/Users/HP/Desktop/Big_data/dicom_fina
l/labels\\labels_spleen_12_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labe
ls_spleen_12_4', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_12_
5', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_13_1', 'C:/Users/
HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_13_2', 'C:/Users/HP/Desktop/Big
_data/dicom_final/labels\\labels_spleen_14_1', 'C:/Users/HP/Desktop/Big_data/dicom_fi
nal/labels\\labels_spleen_16_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\la
bels_spleen_17_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_17
_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_17_3', 'C:/User
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ig_data/dicom_final/labels\\labels_spleen_18_2', 'C:/Users/HP/Desktop/Big_data/dicom_
final/labels\\labels_spleen_18_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels
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sers/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_20_1', 'C:/Users/HP/Deskto
p/Big_data/dicom_final/labels\\labels_spleen_20_2', 'C:/Users/HP/Desktop/Big_data/dic
om_final/labels\\labels_spleen_20_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/label
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en_20_5', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_21_1', 'C:/
Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_21_2', 'C:/Users/HP/Deskt
op/Big_data/dicom_final/labels\\labels_spleen_22_1', 'C:/Users/HP/Desktop/Big_data/di
com_final/labels\\labels_spleen_22_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/labe
ls\\labels_spleen_22_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spl
een_22_4', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_24_1',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_24_2', 'C:/Users/HP/D
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'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_27_1', 'C:/Users/HP/D
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labels\\labels_spleen_28_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
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abels\\labels_spleen_31_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_
spleen_32_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_32_2',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_32_3', 'C:/Users/HP/D
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a/dicom_final/labels\\labels_spleen_33_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/
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a/dicom_final/labels\\labels_spleen_40_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/
labels\\labels_spleen_40_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
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'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_41_3', 'C:/Users/HP/D
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labels\\labels_spleen_45_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
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'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_46_1', 'C:/Users/HP/D
esktop/Big_data/dicom_final/labels\\labels_spleen_46_2', 'C:/Users/HP/Desktop/Big_dat
a/dicom_final/labels\\labels_spleen_46_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/
labels\\labels_spleen_47_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
```

```
_spleen_47_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_49_1',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_52_1', 'C:/Users/HP/D
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a/dicom_final/labels\\labels_spleen_52_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/
labels\\labels_spleen_53_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
_spleen_53_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_53_3',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_53_4', 'C:/Users/HP/D
esktop/Big_data/dicom_final/labels\\labels_spleen_53_5', 'C:/Users/HP/Desktop/Big_dat
a/dicom_final/labels\\labels_spleen_56_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/
labels\\labels_spleen_59_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
_spleen_60_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_60_2',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_60_3', 'C:/Users/HP/D
esktop/Big_data/dicom_final/labels\\labels_spleen_61_1', 'C:/Users/HP/Desktop/Big_dat
a/dicom_final/labels\\labels_spleen_61_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/
labels\\labels_spleen_61_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels
_spleen_62_1', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_62_2',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_63_1', 'C:/Users/HP/D
esktop/Big_data/dicom_final/labels\\labels_spleen_6_1', 'C:/Users/HP/Desktop/Big_dat
a/dicom_final/labels\\labels_spleen_6_2', 'C:/Users/HP/Desktop/Big_data/dicom_final/l
abels\\labels_spleen_6_3', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_s
pleen_6_4', 'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_8_1',
'C:/Users/HP/Desktop/Big_data/dicom_final/labels\\labels_spleen_9_1']
```

In [130…
```python
for i in folder_list:
    folder_name=os.path.basename(os.path.normpath(i))

    dn.dicom_series_to_nifti(i,os.path.join(nifti_path,folder_name+".nii.gz"))
```

In [131…
```python
d_initial="C:/Users/HP/Desktop/Big_data/dicom_initial/images"
d_final="C:/Users/HP/Desktop/Big_data/dicom_final/images"
```

In [133…
```python
from glob import glob
number_of_slice=31

for i in glob(d_initial+"/*"):
    print(i)
    folder_name=os.path.basename(os.path.normpath(i))
    number_of_folder=int(len((glob(i+"/*")))/number_of_slice)
    print(folder_name)
    print(number_of_folder)


    for j in range(1,number_of_folder+1):
        new_dir=os.path.join(d_final,folder_name+"_"+str(j))
        print(new_dir)

        os.mkdir(new_dir)
        k=0
        for l in glob(i+"/*"):
            if k==number_of_slice:
                break

            shutil.move(l,new_dir)
            k+=1
```

```
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_10
images_spleen_10
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_10_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_12
images_spleen_12
5
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_12_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_12_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_12_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_12_4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_12_5
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_13
images_spleen_13
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_13_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_13_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_14
images_spleen_14
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_14_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_16
images_spleen_16
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_16_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_17
images_spleen_17
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_17_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_17_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_17_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_18
images_spleen_18
5
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_18_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_18_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_18_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_18_4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_18_5
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_19
images_spleen_19
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_19_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_2
images_spleen_2
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_2_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_2_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_20
images_spleen_20
5
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_20_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_20_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_20_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_20_4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_20_5
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_21
images_spleen_21
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_21_1
```

```
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_21_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_22
images_spleen_22
4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_22_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_22_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_22_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_22_4
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_24
images_spleen_24
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_24_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_24_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_24_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_25
images_spleen_25
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_25_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_25_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_26
images_spleen_26
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_26_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_26_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_27
images_spleen_27
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_27_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_27_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_27_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_28
images_spleen_28
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_28_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_29
images_spleen_29
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_29_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_29_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_29_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_3
images_spleen_3
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_3_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_31
images_spleen_31
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_31_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_32
images_spleen_32
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_32_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_32_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_32_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_33
images_spleen_33
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_33_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_33_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_38
```

```
images_spleen_38
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_38_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_38_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_38_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_40
images_spleen_40
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_40_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_40_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_40_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_41
images_spleen_41
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_41_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_41_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_41_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_44
images_spleen_44
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_44_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_44_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_45
images_spleen_45
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_45_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_45_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_45_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_46
images_spleen_46
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_46_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_46_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_46_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_47
images_spleen_47
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_47_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_47_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_49
images_spleen_49
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_49_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_52
images_spleen_52
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_52_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_52_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_52_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_53
images_spleen_53
5
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_53_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_53_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_53_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_53_4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_53_5
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_56
images_spleen_56
1
```

```
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_56_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_59
images_spleen_59
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_59_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_6
images_spleen_6
4
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_6_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_6_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_6_3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_6_4
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_60
images_spleen_60
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_60_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_60_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_60_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_61
images_spleen_61
3
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_61_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_61_2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_61_3
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_62
images_spleen_62
2
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_62_1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_62_2
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_63
images_spleen_63
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_63_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_8
images_spleen_8
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_8_1
C:/Users/HP/Desktop/Big_data/dicom_initial/images\images_spleen_9
images_spleen_9
1
C:/Users/HP/Desktop/Big_data/dicom_final/images\images_spleen_9_1
```

In [134…
```python
dicom_path="C:/Users/HP/Desktop/Big_data/dicom_final/images/*"
nifti_path="C:/Users/HP/Desktop/Big_data/nifti_initial/images"
```

In [135…
```python
for i in folder_list:
    folder_name=os.path.basename(os.path.normpath(i))

    dn.dicom_series_to_nifti(i,os.path.join(nifti_path,folder_name+".nii.gz"))
```

In [136…
```python
!pip install nibabel
```

```
Requirement already satisfied: nibabel in c:\users\hp\.conda\envs\red_mamba\lib\site-
packages (5.1.0)
Requirement already satisfied: importlib-resources>=1.3 in c:\users\hp\.conda\envs\re
d_mamba\lib\site-packages (from nibabel) (5.2.0)
Requirement already satisfied: numpy>=1.19 in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (from nibabel) (1.24.2)
Requirement already satisfied: packaging>=17 in c:\users\hp\.conda\envs\red_mamba\lib
\site-packages (from nibabel) (23.0)
Requirement already satisfied: zipp>=3.1.0 in c:\users\hp\.conda\envs\red_mamba\lib\s
ite-packages (from importlib-resources>=1.3->nibabel) (3.11.0)
```

In [138…
```python
import nibabel as nb
import numpy as np
```

In [139…
```python
path_of="C:/Users/HP/Desktop/Big_data/nifti_initial/labels/*"
```

In [142…
```python
list_of_null=[]

for i in glob(path_of):
    nifti = nb.load(i)

    frame_data = nifti.get_fdata()


    uniq = np.unique(frame_data)
    print(uniq)
    if len(uniq) ==1:
        list_of_null.append(i)
```

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```

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[0. 1.]
[0. 1.]
```

In [144... `list_of_null`

```
Out[144]:  ['C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_5.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_16_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_5.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_5.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_21_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_21_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_24_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_24_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_24_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_25_1.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_27_3.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_29_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_29_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_2_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_2_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_32_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_32_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_32_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_33_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_33_2.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_38_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_38_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_40_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_40_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_40_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_44_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_44_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_3.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_46_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_46_3.nii.gz',
```

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                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_47_1.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_47_2.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_52_1.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_52_2.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_52_3.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_1.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_2.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_3.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_4.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_5.nii.gz',
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                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_61_2.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_61_3.nii.gz',
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                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_62_2.nii.gz',
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                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_2.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_3.nii.gz',
                  'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_4.nii.gz']
```

In [159…
```python
list_of_null=[]

for i in glob(path_of):
    nifti = nb.load(i)

    frame_data = nifti.get_fdata()


    uniq = np.unique(frame_data)
    print(uniq)
    if len(uniq) ==1:
        list_of_null.append(i)
```

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[0. 1.]
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[0. 1.]
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[0.]
[0. 1.]
[0. 1.]
```

In [160… `list_of_null`

```
Out[160]:  ['C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_5.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_16_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_17_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_4.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_18_5.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_20_4.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_21_2.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_22_4.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_24_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_24_3.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_25_2.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_27_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_29_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_29_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_29_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_2_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_2_2.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_32_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_32_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_33_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_33_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_38_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_38_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_38_3.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_40_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_40_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_41_3.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_44_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_44_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_1.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_45_3.nii.gz',
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            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_46_2.nii.gz',
            'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_46_3.nii.gz',
```

```
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_47_1.nii.gz',
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    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_52_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_52_3.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_1.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_3.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_4.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_53_5.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_60_1.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_60_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_60_3.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_61_1.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_61_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_61_3.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_62_1.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_62_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_1.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_2.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_3.nii.gz',
    'C:/Users/HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_6_4.nii.gz']
```

In [162…

```python
import os

files_to_delete =list_of_null
folder_path = "C:/Users/HP/Desktop/Big_data/nifti_initia/\labels"

for filename in files_to_delete:
    file_path = os.path.join(folder_path, filename)
    os.remove(file_path)
```

```
---------------------------------------------------------------------------
FileNotFoundError                         Traceback (most recent call last)
Cell In[162], line 8
      6 for filename in files_to_delete:
      7     file_path = os.path.join(folder_path, filename)
----> 8     os.remove(file_path)

FileNotFoundError: [WinError 2] The system cannot find the file specified: 'C:/Users/
HP/Desktop/Big_data/nifti_initial/labels\\labels_spleen_12_1.nii.gz'
```

In [ ]: