TASK:

WRITE MATLAB CODE TO ACCOMPLISH THE FOLLOWING TASK

1) Enhance the images (R102.png, R103.png, R104.png, R105.png, R106.png, and R107.png) to sharpen the edge of the blood vessels.

2) Extract the edges of the blood vessels in each image. (You might want to correct the inhomogeneous background light to get clear vessels.)

3) Compute the difference between each pair of images. (A such similiarity metric is structural similiarty)

4) Based on the similarity results, groups the images into 3 classes (or groups). Note that these images are from three distinct human subjects.

5) Compute the distance of image R207.png to the images in each class and decide which class this image should belong to based on the maximum similarity.