Problem 1

Load the grayscale image Image.bmp into Matlab.

1) Display the image
2) Thresholding
   a. Select a threshold.
   b. Perform thresholding on input image and display the resulting image.
3) Contrast stretching
   a. Perform contrast stretching on input image and display the resulting image. The range of pixel intensities that is being stretched should include 90% of the pixels, except for 5% lowest valued and 5% highest valued ones. The target range is [0 255].
4) Gamma correction
   a. Select a gamma.
   b. Perform gamma correction on the input image and display the resulting image.
5) Histogram equalization
   a. Perform histogram equalization on the input image and display the resulting image.