Write a MATLAB function called "ImageAdjust" that accepts an input image and returns an enhancement image using the following linear level adjustment formula:

$$ P_{adjus}(m,n) = Bottom + \frac{(P(m,n)-L)}{(H-L)}*(Top-Bottom) $$

Where
- $P(m,n)$: original image pixel
- $P_{adjus}(m,n)$: desired image pixel
- $H$: maximum pixel level in the original image
- $L$: minimum pixel level in the original image
- $Top$: maximum pixel level in the image desired
- $Bottom$: minimum pixel level in the desired image

- Check the class of the input image in your code, to determine the correct values for Bottom and Top.
- Use low level processing.
- The output image must be in uint8 class.

GOOD LUCK