

PROBLEM 2

This problem is about gamma correction. We will calculate gamma for your display device so it is important that each student does his/her own exercise. For this problem, refer to the **Section 4 of ‘Gamma.pdf’** for detailed instructions.

1. Create an image of matching gray level as explained in Gamma.pdf
2. Derive an expression relating the matching gray level to the gamma of your monitor. Report the measured gray level and the measured gamma.
3. Gamma correct the image linear.tif. Display the uncorrected and corrected image along with how you did the correction.

Report must include:

- 1. The matching gray level image**
- 2. Derivation relating the matching gray level to the gamma of your monitor and the measured gray level and the measured gamma.**
- 3. Uncorrected linear.tif and corrected linear.tif.**

PLEASE NOTE THAT YOU DO NOT HAVE TO IMPLEMENT TO IMPLEMENT THE HISTOGRAM PART OF THE GAMMA.PDF. YOU ONLY NEED TO IMPLEMENT ABOVE MENTIONED PARTS AND IGNORE THE REST.