Instructions

Using NumPy, Matplotlib and OpenCV, Perform the following Operations on the images provided.

1. Read the image using OpenCV and display the image using matplotlib.
2. Check the data type of the image.
3. Check the dimensions of the image.
4. Find the maximum and minimum values of pixels.
5. Convert the image into float format and display the image.
6. Find the maximum and minimum values of pixels in the float format.
7. Convert the image into gray scale using OpenCV and display the image with proper mapping.
8. Read the image directly in a gray scale format using OpenCV.
9. Using NumPy Indexing extract the central 100 x 100 pixel of the image and display the image with size 100 x 100.
10. Perform Horizontal and Vertical Flipping of the Image.
11. Extract the Red, Green and Blue Channel of the Image.
12. Regenerate the image from the Red, Green and Blue Channel.
13. Submit only the pdf version of your python script of your assignment.
14. Only the pdf version of your assignment will be accepted. Don't make a zip file and do not submit the image and assignment instructions.
15. The name of the pdf file should be your **FullName_ID.**