

An-Najah National University
Department of Computer Engineering
Digital Image Processing - 10636318
Second Semester 2022/2023
OpenCV Assignment

Write a program to perform the following functionalities on an input image:

1. Read a color image (**please use any image you prefer that is dark, bright or low-contrast**)
2. Convert the image into gray-scale
3. Show the histogram of the image
4. Print the necessary features/values that can be useful to identify the shape of the histogram
5. Enhance the contrast of the image using the following techniques and compare between the resulting images
 - Manually using the intensity transformation functions
 - Automatically using histogram equalization

Submit your source code and a PDF file that contains the output and the code for each segment (functionality) above. Please consider the following regulations:

- Each student should perform the assignment individually
- You can use only C, C++ or Python with OpenCV to implement the assignment.
- Deadline: 22.10.2022