Assignment 1

Write a python code that depends on the OpenCV library and that performs the following:

1. Read, display and save an image.
2. Manipulate pixels intensities and image channels.
3. Transform a matrix into a vector and vice-versa.
4. Compute and display some characteristics such as dynamic, luminance and contrast.
5. Perform compression by reducing the tonal resolution.
6. Perform different geometric transformations.
7. Perform a steganography.
8. Perform subsampling and upsampling.
9. Perfom image warping into a circle.