Introduction to Digital Image Processing HW1 Report

**Name Surname**: İsmet Emir Demir

**ID**: 180315070

OS: Microsoft Windows 10 Pro Build 19042

MATLAB Version: R2020b

Octave Version: 6.2.0

Python Version: 3.9.2

Pillow Version: 8.1.2

# Assignment Details

With the help of this assignment, it is aimed to establish the necessary programs for the upcoming assignments. In addition, we became familiar with the interface we will use in the future.

# Assignment Summary

I learnt how to open and assign images to matrices in MATLAB and Octave. Experienced how to manipulate images with using MATLAB and Octave functions on matrices. I saw the pixel distribution in the black and white range in the picture with the histogram and use subplot function to be able to see all output at one window. Also, I learned how to install python packages, creating python environments. I installed Pillow package and import few libraries from it. With the use of Pillow's functions, I changed the image size, type, and color format; I applied filters to the image and the rotated image.