

**An-Najah National University**  
**Department of Computer Engineering**  
**Digital Image Processing - 10636318**  
**Second Semester 2021/2022**  
**Homework Assignment**

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Write a program to perform the following functionalities on an input image (Using static name “inputImg.jpg” in the same directory) according to the commands entered by the user. The program shows a menu with the available functionalities and the corresponding command characters as shown below.

Functionality	Command characters
Opening and showing a color input image	o
Converting the image to gray-scale	g
Modifying the brightness (increasing and decreasing)	+, -
Improving the contrast	c
Thresholding	t
Saving the processed image	s

Please consider the following regulations:

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