CSE463
Assessment 1
1st March 2025
Spring 2025
Time: 30 mins

Question 1

Given an input grayscale image, apply a Gaussian filter with a kernel size of 5x5, followed by Laplacian edge detection. Display the original image, the Gaussian blurred image, and the Laplacian result side by side.

Instructions:

- 1. Read the input image in grayscale.
- 2. Apply a Gaussian blur with a 5x5 kernel.
- 3. Apply the Laplacian filter to detect edges.
- 4. Display all three images (original, blurred, and edge-detected) in a single window using matplotlib.

Question 2

Q2. If you apply a 2x2 max pooling with a stride of 2 to a 4x4 image, what will be the size of the output?

Submission Link: https://forms.gle/2LXgJ7ahkjp5SMyx9