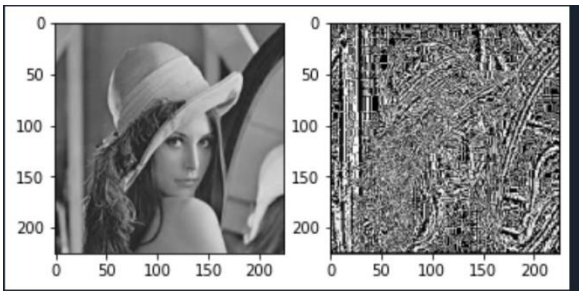
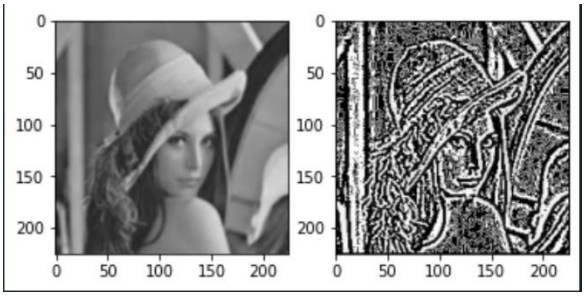
Original image with laplacian operator



Gaussian filtered image with laplacian operator



We can see for the left images, using the laplacian on the original image that has not yet been filtered, gets alot of noise. It still detects edges, but it looks at other pixels that are not suppose to be an edge, as an edge.

If we look at the images at the right, we get a better result. This is because gaussian is a smoothing filter that reduce noise. Since laplacian filter dont handle noise very well, the gaussian filter helps the operator to achieve better result.

This we can see from the most right image. The result has more clear edges, and is able to create a smooth result that looks like the original image.

From the original image straight to using laplacian operator, there are still some similarities. But it is not very clear if it is from the original image or not, too much noise.