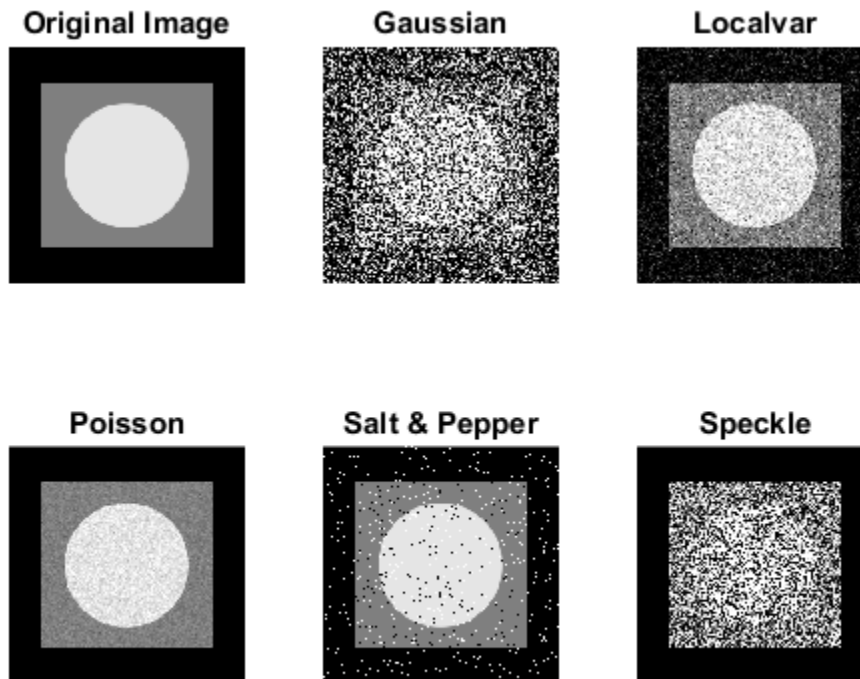**Lab 4 Assignment**

CMSE 424
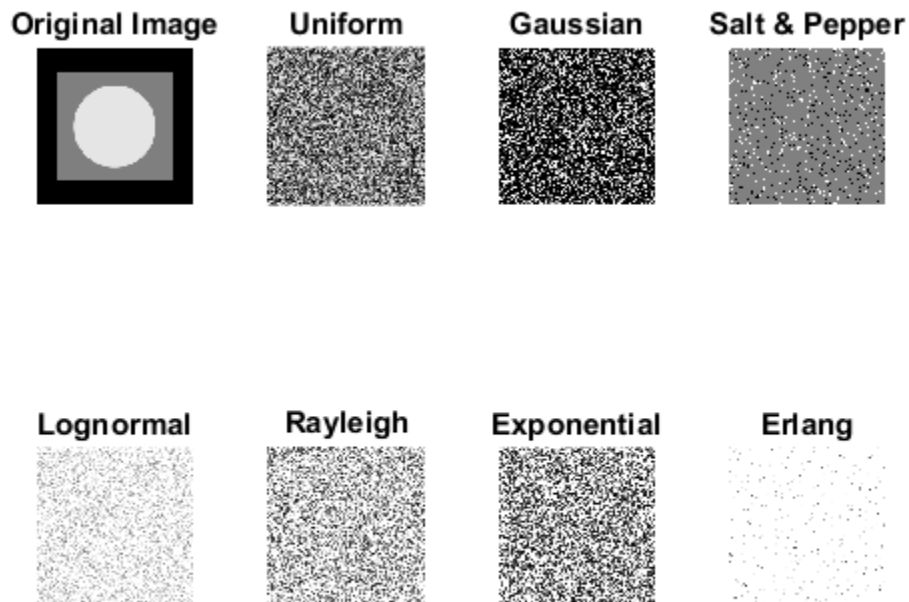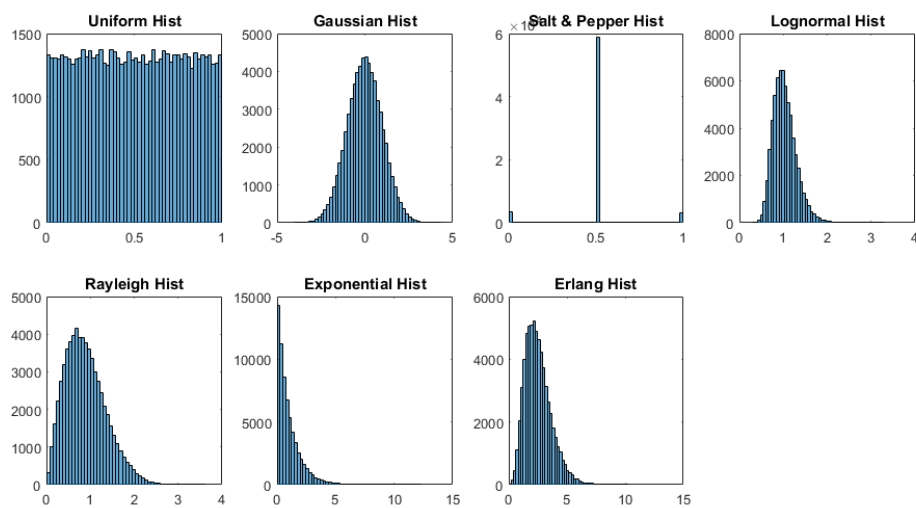
Image Processing

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Exercise 1

In this exercise, we have used the imnoise.m and imnoise2.m packages to create noise or add noise to our images. We used imnoise.m for part a and b. For imnoise.m, I have calculated mean and variance and input them in the function. You can see my output for a) and b) below.

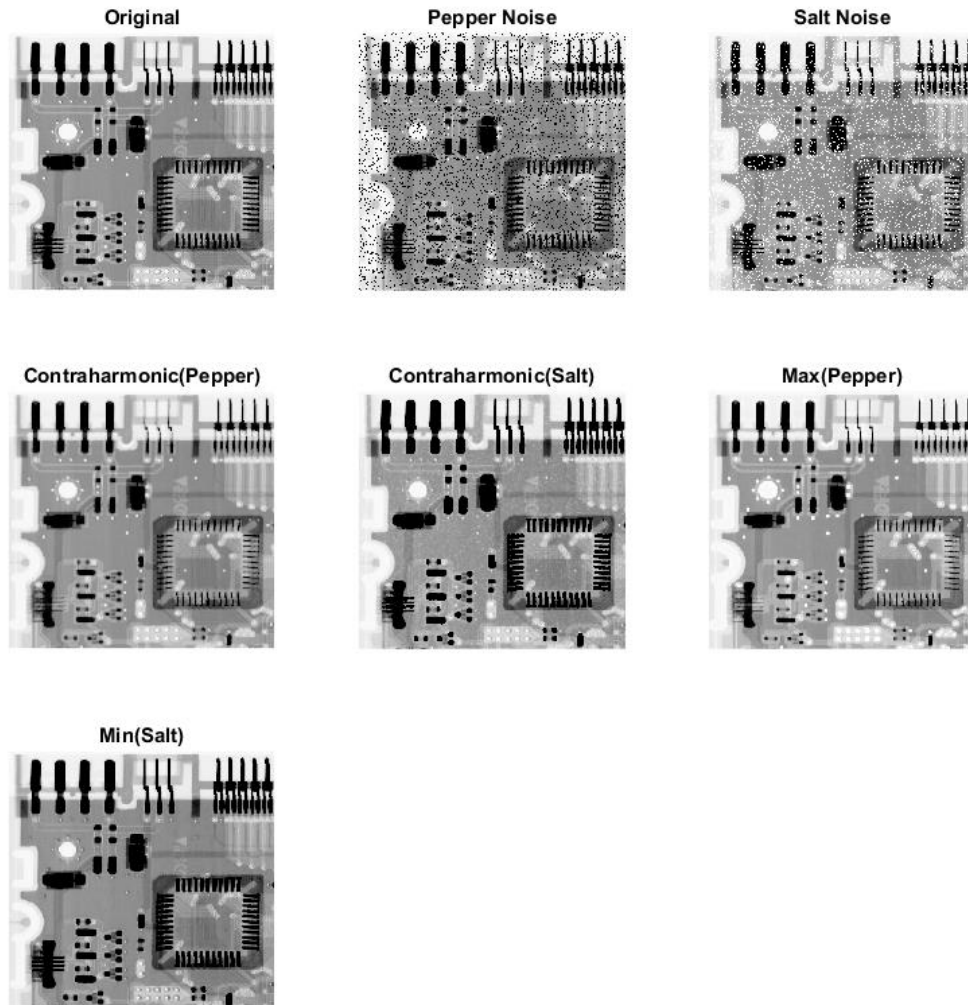For c), we were asked to use the different noise types from imnoise2.m. You can see my output for imnoise2.m below.

We were asked to use hist() function for d), however it is recommended that we use histogram() on the matlab documentation. Here is my output.

Exercise 2

In this example, we applied salt and pepper separately on the figure and tried to clean out the salt and pepper noise. You can see my results for this part in the following image.

In my opinion, Contraharmonic did a better job with cleaning Pepper noise and Min did a better job at cleaning salt noise. Max did a good job with cleaning Pepper as well but we actually lost a few details with this method.