

## HW2: Problem 1

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### 1 Part A

Image converted to greyscale:



Figure 1: Greyscale dimensionally reduces the image and assigns weights to RGB values to created a weighted average.



Figure 2: Greyscale image with gaussian noise applied.

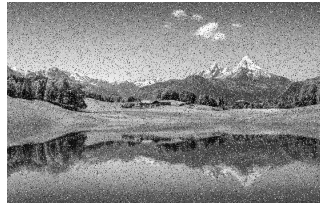


Figure 3: Greyscale image with salt-and-pepper noise applied.

### 2 Part B

#### 2.1 Subsection 1

Image with zero-mean Gaussian white noise with variance of 0.01:

#### 2.2 Subsection 2

Image with salt-and-pepper noise, affecting approximately 5% of pixels: