

Task 2.1P

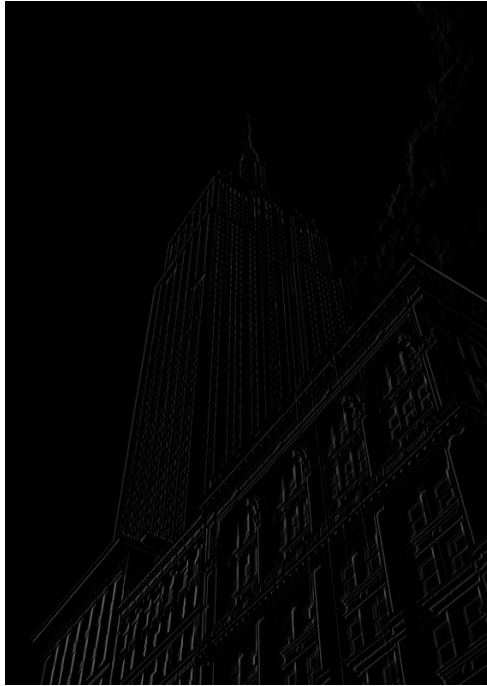
K-kernel



Gaussian kernel



Sobel kernel



Corner kernel



Median filter for noise image



Bilateral filter for noise image



Gaussian filter for noise image



The median filter is able to filter out more noise in the image as compared to the gaussian filter and the image for the median filter is sharper as compared to the gaussian filter.

Both the gaussian filter and the bilateral filter is not able to filter out much noise in the image. However, the image for bilateral filter is sharper as compared to the gaussian filter.

Reverse sobel edge detection



Reverse canny edge detection



The canny edge detection is able to capture more pixels but is more clustered as compared to the sobel edge detection.