Introduction:

Image processing is a widely used technic in many areas. Usually, image processing refers to digital image [1] processing which computer is used to analysis those images. Those digital images are defined by matrix, the element in the matrix is called “Pixel” and its value is called “Grey Value”. Different process results can be obtained by manipulating the grey value of pixels. Generally, there are two types of process, smoothing and gradient operator respectively. Both of them can use a convolutional method with different convolution kernel (filter). In this paper, different kernels are used to perform smoothing, sharpening and edge detecting tasks. The structure of this paper is designed as follows. Descriptions of different type of process is presented in the next section.