# **Assignment 1**

1. Code your own generic Convolution function without using built-in-function.

2. Write a function to implement an image zoom, have the user specify the starting(r, c) coordinates, the height; width and the zoom factor. Perform zero-order hold, first-order hold using convolution and user defined zoom K (N-1) + 1 without convolution.

3. Write a function to perform translation, rotation and combination of these to an image. Experiment with various degrees of rotation and translation.