**LAB 8**

**Aim: Introduction to Morphological Image Processing.**

**(a) Create input image of size 9x9 as shown below. Perform ‘Erosion’, ‘Dilation’,**

**‘Opening’ and ‘Closing’ operations using ‘Disk’ structuring element of size ‘1’.**

**(b)Download ‘banana’ image. Convert it into black and white image as shown**

**below. Perform ‘Erosion’ and ‘Dilation’ operation with ‘Disk’ and ‘Square’**

**structuring elements.**

**(c)** **Read in the image ‘blobs.png’ . This image should already be available with MATLAB**

**as it comes with the Image Processing Toolbox.**

**Perform ‘Opening’ and ‘Closing’ operations on the given image with ‘Disk’**

**structuring element of size ‘5’.**

**(d) Perform ‘Boundary Extraction’ Operation on ‘Banana’ and ‘Shapes’ images.**