<u>User defined Erosion Function:</u> myerosion()

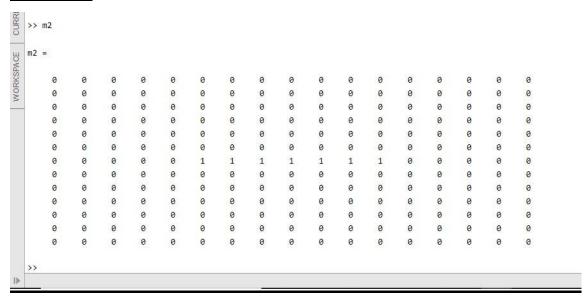
I have used my defined erosion function in all below program

<u>(a):</u> input

```
WORKSPACE | CURRE
   >> m1
   m1 =
        0
                           0
                                        1
                                                    1
                                                                 1
                                 0
        0
                           0
                                       1
                                                    1
                                                                 1
                                                                             1
               0
                           0
                                        0
        0
                                                    0
                                        0
                                                    0
                                                                 0
                                                                             0
        0
               0
                           0
                                                    0
                           0
```

Code:

output:



(b):

```
c2 = imread("fig_2c.tif");
s1 = [1 1 1; 1 1 1; 1 1 1];
s1 = padarray(s1,[4 4],1,"both"); %paded array with 1 on both side
                             % to make it 11 x 11 square SE
s2 = padarray(s1,[2 2],1,"both");
s3 = padarray(s1,[17 17],1,"both");
a = myerosion(c2,s1); %here i have used my own erosion function
b= myerosion(c2,s2);
c = myerosion(c2,s3);
figure,
of a
imshow(a);
                % display image on window
title("SE 11 x 11"); % title of image
subplot(2,2,2);
imshow(b);
title("SE 15 X 15");
subplot(2,2,3);
imshow(c);
title("SE 45 X 45");
subplot(2,2,4);
imshow(c2);
title("Orignal");
```

