```
function  smooth( a )


imshow(a)


a1 = imfilter(a,ones(31));

figure,imshow(a1,[]);


a2 = imfilter(a,ones(63));

figure,imshow(a2,[]);


a3 = imfilter(a,ones(127));

figure,imshow(a3,[]);




b1 = imfilter(a,ones(31),'replicate');

figure,imshow(b1,[]);


b2 = imfilter(a,ones(63),'replicate');

figure,imshow(b2,[]);




c1 = imfilter(a,ones(31),'symmetric');

figure,imshow(c1,[]);


c2 = imfilter(a,ones(63),'symmetric');

figure,imshow(c2,[]);




d1 = imfilter(a,ones(31),'circular');
```

```
figure,imshow(d1,[]);


d2 = imfilter(a,ones(63),'circular');

figure,imshow(d2,[]);




w1 = fspecial('disk',31);

e1 = imfilter(a,w1,'replicate');

figure,imshow(e1,[]);


w2 = fspecial('unsharp');

e2 = imfilter(a,w2,'replicate');

figure,imshow(e2,[]);


w3 = [-1 -1 -1; -1 8 -1; -1 -1 -1];

e3 = imfilter(a,w3,'replicate');

e3 = a + e3;

figure,imshow(e3,[]);




g1 = medfilt2(a,[31 31]);

figure,imshow(g1);


g2 = medfilt2(a,[63 63]);

figure,imshow(g2);


g3 = medfilt2(a,[31 31],'indexed');

figure,imshow(g3);
```

```
g4 = medfilt2(a,[63 63],'indexed');

figure,imshow(g4);



g5 = medfilt2(a,[31 31],'symmetric');

figure,imshow(g5);



g6 = medfilt2(a,[63 63],'symmetric');

figure,imshow(g6);



end
```

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