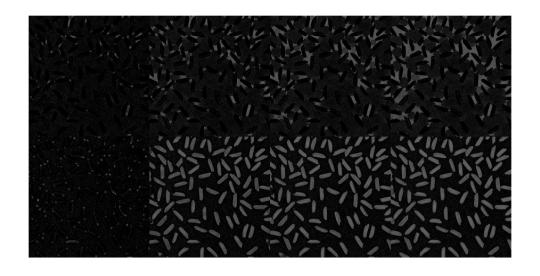
```
%Pratap Luitel
%ENGS 111
%HW 4
im1 = imread('rice.png');
[i2,m2] = imread('son1-1.gif');
%convert to type double
imIn1 = im2double(im1);
imIn2 = ind2gray(i2, m2);
imIn2 = im2double(imIn2);
imageSequence1 = zeros(size(imIn1,1),size(imIn1,2),1,8);
imageSequence2 = zeros(size(imIn2,1),size(imIn2,2),1,8);
for i = 1:4
    n = [7 11 13 15];
    startX = floor(n(i)/2);
    x = repmat(-startX:startX,[n(i) 1]);
    y = repmat([-startX:startX]',[1 n(i)]);
    r = sqrt(x.^2 + y.^2);
    SE = zeros(n(i),n(i));
    SE(r \le startX) = 1;
    %rice.png
    imageSequence1(:,:,1,i) = topBottomHat(imIn1,SE,0); %bottomHat
    imageSequence1(:,:,1,i+4) = topBottomHat(imIn1,SE,1); %topHat
    %son1-1.gif
    imageSequence2(:,:,1,i) = topBottomHat(imIn2,SE,0); %bottomHat
    imageSequence2(:,:,1,i+4) = topBottomHat(imIn2,SE,1); %topHat
end
figure(1)
montage(imageSequence1, 'size',[2,4]);
figure(2)
montage(imageSequence2, 'size',[2 4]);
        Warning: Image is too big to fit on screen; displaying at 50%
```





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