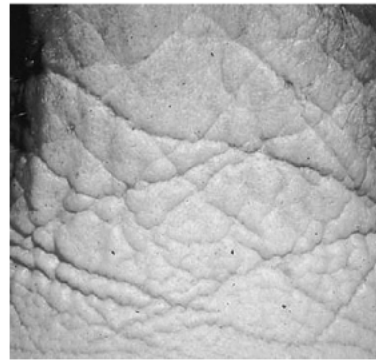
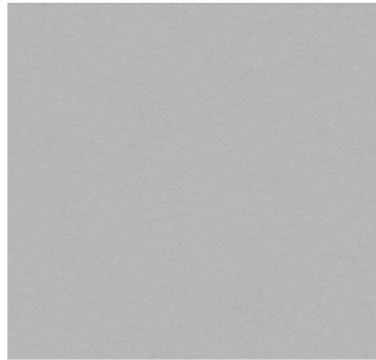


---

```
% Question 1.b
% Anand Preshob Kadumberi
%
% Pseudo code for the solution
% 1. Read the images.
% 2. Resize both images to same scale and convert to grayscale.
% 3. Perform edge detection and calculate the total sum of all the
    pixels
% OR
% 3. Perform texture analysis by calculating the gray level co-
    occurrence
    matrix and also calculate the entropy of the images
```

## Read Image

```
img1=imread('normal.jpg');
img2=imread('wrinky.JPG');
img1=imresize(img1,[825 869]);% Rezising both images to same scale
% Converting to Grayscale
nor=rgb2gray(img1);
wri=rgb2gray(img2);
% Ploting the image
subplot(1,2,1)
imshow(nor)
subplot(1,2,2)
imshow(wri)
```



## The quantified values

Edge detection

```
noredge=edge(nor,'sobel');
wriedge=edge(wri,'sobel');
new1=(uint8(noredge)).*(nor);
new2=(uint8(wriedge)).*(wri);
% Quantifier 1
sum(new1(:))
sum(new2(:))
% Quantifier 2
glcm1=graycomatrix(nor)
glcm2=graycomatrix(wri)
% Quantifier 3
stats1 = graycoprops(glcm1)
stats2 = graycoprops(glcm2)
% Quantifier 4
j1=entropy(nor)
j2=entropy(wri)
```

*ans* =

28360

---

ans =

1346566

glcm1 =

Columns 1 through 6

	445	64	0	0	0
0					
	65	294	0	0	0
0					
	0	0	0	0	0
0					
	0	0	0	0	0
0					
	0	0	0	0	0
0					
	0	0	0	0	0
714826					
	0	0	0	0	0
115					
	0	0	0	0	0
0					

Columns 7 through 8

	0	0
	0	0
	0	0
	0	0
	0	0
	0	0
115	0	
176	0	
0	0	

glcm2 =

Columns 1 through 6

	14509	624	0	0	0
0					
	355	14844	1195	7	0
0					
	1	841	20271	2535	12
6					
	0	7	2160	31914	4619
29					
	0	0	36	4340	87092
8930					

---

	0	0	2	32	8790
249712					
	0	0	0	2	14
12335					
	268	172	90	73	123
103					

Columns 7 through 8

0	0
0	0
0	0
6	0
13	0
12334	5
227033	2038
2038	6590

stats1 =

Contrast: 5.0133e-04  
Correlation: 0.9904  
Energy: 0.9964  
Homogeneity: 0.9997

stats2 =

Contrast: 0.1231  
Correlation: 0.9677  
Energy: 0.2416  
Homogeneity: 0.9548

j1 =

3.3506

j2 =

7.0817

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