I=imread('C:\Users\student\Desktop\sample3.tif');

subplot(2,2,1);

imshow(I);

title('Original');

I=double(I);

S=[2 3];

tform1=maketform('affine',[S(1) 0 0 ;0 S(2) 0; 0 0 1]);

I1=imtransform(I,tform1);

subplot(2,2,2);

imshow(I1);

title('scaling');

sh=[0.5 0.2];

tform2=maketform('affine',[1 sh(1) 0; sh(2) 1 0; 0 0 1]);

I2=imtransform(I,tform2);

subplot(2,2,3);

imshow(I2);

title('shear');

pi=3.1437;

theta=3\*pi/4;

A=[cos(theta) sin(theta) 0; -sin(theta) cos(theta) 0; 0 0 1];

tform3=maketform('affine',A);

I3=imtransform(I,tform3);

subplot(2,2,4);

imshow(I3);

title('rotation');

