**Object Identification.**

I = imread('coin.tif');

figure

subplot(1,3,1),imshow(I)

%for uniform reading

se = strel('disk',35);

backgnd = imopen(I,se);

I2 = I - backgnd;

subplot(1,3,2),imshow(I2)

%contrast enhancing

I4 = rgb2gray(I2);

I3 = imadjust(I4);

bw = imbinarize(I3);

bw = bwareaopen(bw,50);

cc = bwconncomp(bw,4);

cc.NumObjects

coin=false(size(bw));

coin(cc.PixelIdxList{5})=true;

subplot(1,3,3),imshow(coin)

coin\_data=regionprops(cc,'basic');