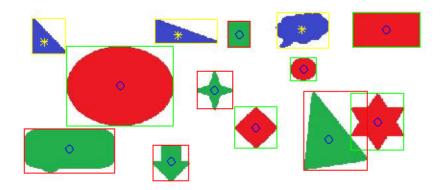
```
clc;
clear all;
close all;
a=imread('fig1.jpg');
                                 %separate red component from
r=a(:,:,1);
 colouredd image
g=a(:,:,2);
b=a(:,:,3);
grayimg=rgb2gray(a);
                                  %coloured to gray for original image
sub r=imsubtract(r,qrayimq);
                                  %subtract coloured red and gray
sub_g=imsubtract(g,grayimg);
sub_b=imsubtract(b,grayimg);
bin r=imbinarize(sub r);
                                 %gray into binary
bin_g=imbinarize(sub_g);
bin b=imbinarize(sub b);
cout=imshow(bin_r);
                                  %show image
count_red=bwconncomp(bin_r);
                                 %count number of red objects
count_green=bwconncomp(bin_g);
count blue=bwconncomp(bin b);
numobj1=count red.NumObjects;
                                  %count number of red images
numobj2=count_green.NumObjects;
numobj3=count_blue.NumObjects;
                                 %to draw the regions around red image
bound r=regionprops(bin r);
bound_g=regionprops(bin_g);
bound_b=regionprops(bin_b);
imshow(a);
                                 %taken original image
hold on;
for i=1:numobj1
    rectangle('Position',bound_r(i,1).BoundingBox,'EdgeColor','g');
    plot(bound_r(i,1).Centroid(1),bound_r(i,1).Centroid(2),'bo')
  %to plot the centroid
end
for i=1:numobj2
    rectangle('Position',bound_g(i,1).BoundingBox,'EdgeColor','r');
    plot(bound_g(i,1).Centroid(1),bound_g(i,1).Centroid(2),'bo')
  %to plot the centroid
end
for i=1:numobj3
    rectangle('Position',bound_b(i,1).BoundingBox,'EdgeColor','y');
    plot(bound_b(i,1).Centroid(1),bound_b(i,1).Centroid(2),'y*')
  %to plot the centroid
end
hold off;
```

%yellow for blue recogination
%green for red recogination
%red for green recogination



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