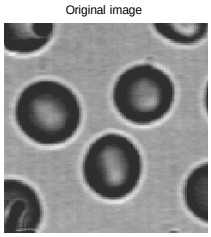
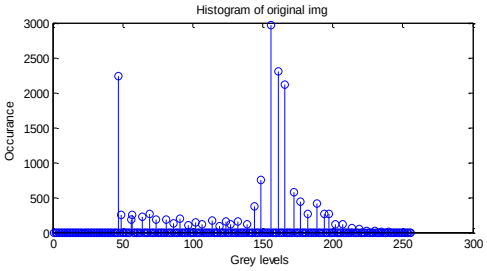
TITLE:IMAGE SEGMENTATION AND PSEUDOCOLOURING

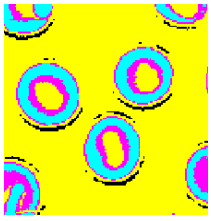
CODE:

1]1ST IMAGE

```
clc;
clear all;
close all;

figure(1);
i=imread('E:\3227\a6\blood.bmp');
subplot(2,2,1);
imshow(i);
title('Original image');
[r,c]=size(i);

b=imhist(i);
subplot(2,2,2);
stem(b);
title('Histogram of original img');
xlabel('Grey levels ');
ylabel('Occurance ');

for x=1:r
    for y=1:c
        if(i(x,y)>=0&&i(x,y)<=50)
                R(x,y)=0;
                 G(x,y)=70;
                  B(x,y)=10;
            else if(i(x,y)>=50&&i(x,y)<=100)
                  R(x,y)=257;
                 G(x,y)=0;
                  B(x,y)=2;
                    else if(i(x,y)>=100&&i(x,y)<=175)
                 R(x,y)=90;
                 G(x,y)=50;
                  B(x,y)=0;
                   else if(i(x,y)>=175&&i(x,y)<=200)
                 R(x,y)=90;
                 G(x,y)=50;
                  B(x,y)=0;
                        end;
                end;
        end;
    end;
end;
end;
X=cat(3,R,G,B);
subplot(2,2,3);
imshow(X);
```







2]2ND IMAGE:

```
clc;
clear all;
close all;

figure(2);
m=imread('E:\3227\a6\brainne.bmp');
subplot(2,2,1);
imshow(m);
title('Original image');

s=rgb2gray(m);
[r,c]=size(s);
o=imhist(s);
subplot(2,2,2);
stem(o);
title('Histogram of original img');
xlabel('Grey levels ');
ylabel('Occurance ');

for x=1:r
    for y=1:c
        if(m(x,y)>=0&&m(x,y)<=30)
                R(x,y)=5;
                 G(x,y)=0;
                  B(x,y)=2;
            else if(m(x,y)>=30&&m(x,y)<=60)
                  R(x,y)=60;
                 G(x,y)=30;
                  B(x,y)=0;
                    else if(m(x,y)>=60&&m(x,y)<=90)
                 R(x,y)=500;
```

```
                G(x,y)=0;
                 B(x,y)=10;
                  else if(m(x,y)>=90&&m(x,y)<=120)
                R(x,y)=0;
                G(x,y)=600;
                 B(x,y)=5;
                 else if(m(x,y)>=120&&m(x,y)<=150)
                         R(x,y)=400;
                G(x,y)=100;
                 B(x,y)=0;
                 else if(m(x,y)>=150&&m(x,y)<=180)
                R(x,y)=90;
                G(x,y)=0;
                 B(x,y)=25;
                 else if(m(x,y)>=180&&m(x,y)<=210)
                         R(x,y)=100;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=210&&m(x,y)<=230)
                R(x,y)=90;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=230&&m(x,y)<=240)
                         R(x,y)=100;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=240&&m(x,y)<=250)
                R(x,y)=257;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=250&&m(x,y)<=270)
                R(x,y)=257;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=270&&m(x,y)<=290)
                R(x,y)=257;
                G(x,y)=10;
                 B(x,y)=0;
                 else if(m(x,y)>=290&&m(x,y)<=310)
                R(x,y)=0;
                G(x,y)=10;
                 B(x,y)=50;


                        end;
                end;
        end;
    end;
end;
end;
end;
                        end;
                end;
        end;
    end;
end;
```

```
        end;
    end;
end;
p=cat(3,R,G,B);
subplot(2,2,3);
imshow(p);
```