

IMAGE SEGMENTATION

```
i1=imread('file name ');
i2=rgb2gray(i1);
i3=i2;
thresh=200; for
x=1:195; for
y=1:258;
if i2(x,y)>thresh;
    i3(x,y)=255;
else
i3(x,y)=0;
end
end
end
figure,imshow(i3,[]); title('image
segmentation');
```

REGION GROWING

```
I=im2double(imread('file name'));

figure,imshow(I); title('original
image');
x=169;    y=125;
V=rgb2gray(I);
%imshow(V)
J=(regiongrowing(V,x,y,0.2)); figure,
imshow(V+J); title('region growing');
```

HUFFMAN CODING

```
sym=cellstr(char('M','T','S','R','V','E'));
p=[0.0625,0.3125,0.25,0.125,0.125,0.0625,0.0625]; dict =
huffmandict(sym,p)
```

BASIC PROGRAMM

1 RGB2GRAY

```
I=imread('file name ');
I1=rgb2gray(I);
imshow(I1);
title('output rgb2gray');
```

2GRAY TO INDEX

```
I=imread('filename' );
I1=gray2ind(I,32); imshow(I1);
title('output : gray2ind');
```

3. IM2BW

```
I=imread(' filename ');
imshow(I);
I1=im2bw(I);
imshow(I1);
title('output:im2bw');
```

4.IMTOOLS

```
I=imread(' filename '); %figure,imshow(I); %title('original
image');

imtool(I);
figure,imshow(I);
title ('output : imtools');
```

5. RGB2INDEX

```
I=imread(' filename ');
I1=rgb2ind(I,16);
imshow(I1,[]);
title( 'output:rgb2ind 16');
```