

DSP Lab 3

```
figure(1);

%show img
im1=imread('flower.jpg');
subplot(2,1,1)
imshow(im1)
title("Image")

%rgb2gray
gray=rgb2gray(im1);
subplot(2,1,2)
imshow(gray)
title("RGB to Gray")
```

Image



RGB to Gray



```
figure(2);

% image resize
resized= imresize(gray,[256,256])
imshow(resized)
title("Resized")
```

Resized



```
figure(3);
```

```
% apply guassion filter
```

```
sigma=3;
```

```
filtered=imgaussfilt(gray,sigma)
```

```
imshow(filtered)
```

```
title("filtered")
```

filtered



```
figure(4);
```

```
%edge detection  
edges=edge(gray,'sobel')  
imshow(edges)  
title("edges")
```

edges

