1. Basic Image Processing

a) Load the image into workspace.

```
I=imread('lena.png');
imshow(I);
```

b) Determine the size of Image.

```
[Rows,Columns,Channels] = size(I);
fprintf('Rows = %d\nColumns = %d\nChannels = %d\n',Rows,Columns,Channels);
```

```
Rows = 512
Columns = 512
Channels = 3
```

c) Convert into Grayscale and find Max and Min value of Image.

```
GreyImage=rgb2gray(I);
imshow(GreyImage)
```

```
MAX=max(GreyImage(:))
```

```
MAX = uint8

    245
```

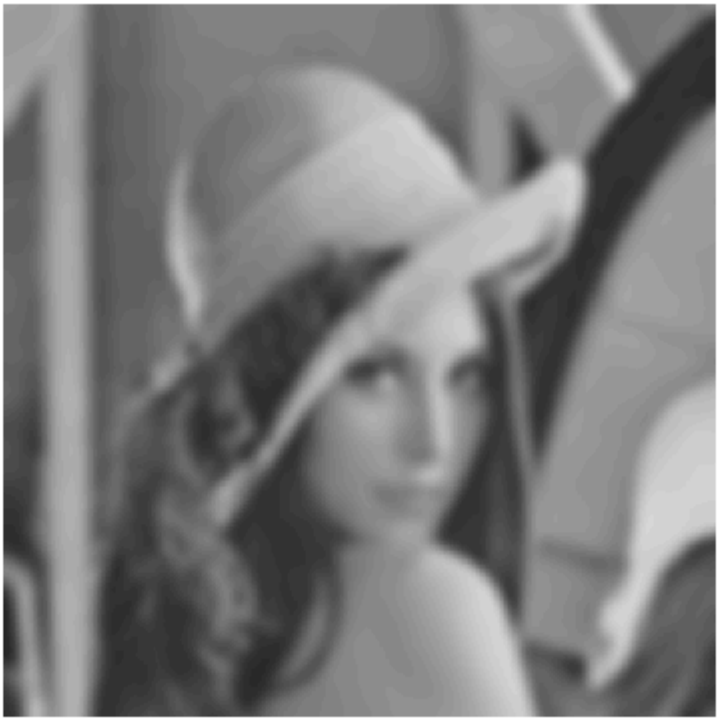
```
MIN=min(GreyImage(:))
```

```
MIN = uint8

    25
```

d) Apply Gaussian smoothing filter.

```
B=imgaussfilt(GreyImage,5);
imshow(B);
```



e) Display all the images

```
montage({I,GreyImage,B})
```