Note: I am Using Scipy v1.1.0. In case of any errors you can install scipy 1.1.0 by the following command: pip install scipy==1.1.0

```
In [26]: import scipy
scipy.__version__
Out[26]: '1.1.0'
```

To download images Click on this url: https://drive.google.com/drive/folders/1pcaTwofZGfoCxZ3Hv2X6vW6xf_1i88eb?usp=sharing)

Import Libraries

```
In [71]: from skimage import data
    from scipy.misc import imread, imresize
    import numpy as np
    from scipy import ndimage
    import matplotlib.pyplot as plt
```

Log Transformation

Formula of Log Transformation is: s = c*Log(1+r)

Original Image

Processed Image

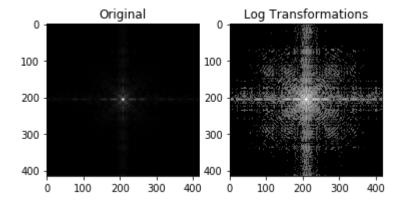
```
In [145]: processed_img = original_image.copy()

In [146]: c=1
    processed_img=c*np.log(1+original_image)
    #print(np.amin(processed_img),np.amax(processed_img))

In [142]: processed_img[processed_img<0]=0
    processed_img[processed_img>=255]=255

In [147]: fig, axes = plt.subplots(1, 2)
    ax = axes.ravel()
    ax[0].imshow(original_image,cmap=plt.cm.gray,interpolation='bilinear')
    ax[0].set_title("Original")
    ax[1].imshow(processed_img, cmap=plt.cm.gray,interpolation='bilinear')
    ax[1].set_title("Log Transformations")
    plt.imshow(processed_img,cmap=plt.cm.gray)
```

Out[147]: <matplotlib.image.AxesImage at 0x18264e1d748>



Demo of Array