```
In [3]: import matplotlib.image as img
          import matplotlib.pyplot as plt
          import numpy as np
In [30]: image=img.imread("F:\lenna.png")
In [31]: image=image[:,:,0]
In [32]: plt.imshow(image)
Out[32]: <matplotlib.image.AxesImage at 0x1f488c88988>
            50
           100
           150
           200
           250
           300
           350
           400
                    100
                                 300
In [33]: plt.hist(image)
          plt.title("histogram")
          plt.xlabel("intensity")
          plt.ylabel("frequency")
Out[33]: Text(0, 0.5, 'frequency')
                                  histogram
             400
             350
             300
          250
200
150
             150
             100
             50
              0
                                               0.8
                                          0.7
                 0.2
                     0.3
                           0.4
                                0.5
                                     0.6
                                                    0.9
                                   intensity
In [39]: Image=img.imread("F:\low.png")
In [40]: Image=Image[:,:,0]
In [43]: plt.imshow(Image)
Out[43]: <matplotlib.image.AxesImage at 0x1f4907eee08>
            50
           100
           150
           200
```

100

150

200

250

```
In [44]: plt.hist(Image)
          plt.title("histogram")
          plt.xlabel("intensity")
          plt.ylabel("frequency")
Out[44]: Text(0, 0.5, 'frequency')
                                   histogram
             250
             200
             150
             100
              50
               0
                     0.6
                                    intensity
In [45]: Image=img.imread("F:\high.png")
In [46]: Image=Image[:,:,0]
In [47]: plt.imshow(Image)
Out[47]: <matplotlib.image.AxesImage at 0x1f492bcf108>
            50
           100
           150
           200
           250
           300
                   50
                       100
                            150
                                 200
                                     250
                                          300
                                               350
In [48]: plt.hist(Image)
          plt.title("histogram")
          plt.xlabel("intensity")
plt.ylabel("frequency")
Out[48]: Text(0, 0.5, 'frequency')
                                   histogram
             300
             250
             200
```

