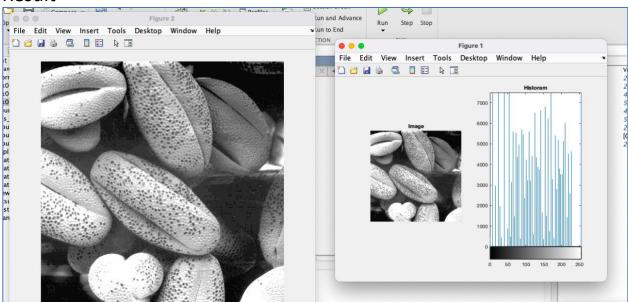
## Histogram for 8-bit image (test02\_a.png) Code

```
Editor – /Users/wcwe/Documents/MATLAB/ex02_eq.m
 correlation_filter.m × ex02_eq.m × ex02.m × fourbit_hist.m × +
         % Tian Xiaoyang
         % image values into histogram
3
         img = imread('/Users/wcwe/Desktop/test02_b.jpg');
4
         % IMAGE HISTORAM
6
         %figure
         subplot(1,2,1),imshow(img),title('Image');
8
         subplot(1,2,2),imhist(img),title('Historam');
9
10
11
         % HISTORAM EQUALIZATION
12
         img_h_eq = histeq(img);
13
         figure
14
         imshow(img_h_eq);
15
16
         subplot(1,2,1),imshow(img_h_eq),title('Image');
17
18
         subplot(1,2,2),imhist(img_h_eq),title('Historam');
19
```

## Result



## 8 bit image to 4 bit and histogram Code

```
Editor - /Users/wcwe/Documents/MATLAB/fourbit_hist.m
 correlation_filter.m × ex02_eq.m × ex02.m × fourbit_hist.m × +
         % Tian Xiaoyang
         % image histogram
        % 8 bit image to 4 bit
 6
         img = imread('/Users/wcwe/Desktop/test02_a.png');
         grayImg = rgb2gray(img);
 8
        % 8 bit to 4 bit
 9
10
        Img4 = grayImg./ 16;
         image(Img4);
11
         colormap(gray(16));
12
13
         % show histogram
14
15
         figure;
         imhist(Img4);
16
```

## Result

