## **Program:**

```
%% Histogram %%
clc;
clear all;
close all;
a = imread('building.jpg');
subplot(3,2,1);
imshow(a);
title('Original Image');
b=rgb2gray(a);
subplot(3,2,2);
imshow(b);
title('Gray Image');
[m, n] = size(b);
for k = 1:256;
  N(k) = 0;
  for i = 1:m
     for j = 1:n
       if b(i,j) == k
          N(k) = N(k) + 1;
       end
     end
  end
end
subplot(3,2,3);
plot(N);
subplot(3,2,4);
imhist(b);
c = histeq(b);
subplot(3,2,5);
plot(c);
subplot(3,2,6);
imshow(c);
```

## **Output:**

