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```
clc;
close all;
clear all;

I=imread('circuit.tif');
subplot(2,4,1);
imshow(I);
title('Original Image');

J=imnoise(I,'gaussian',0,0.01);
subplot(2,4,2);
imshow(J);
title('Gaussian Noise');

BW1=edge(J,'sobel');
subplot(2,4,3);
imshow(BW1);
title('Sobel Method');

BW2=edge(J,'prewitt');
subplot(2,4,4);
imshow(BW2);
title('Prewitt Method');

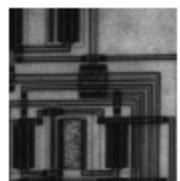
BW3=edge(J,'roberts');
subplot(2,4,5);
imshow(BW3);
title('Roberts Method');

BW4=edge(J,'canny');
subplot(2,4,6);
imshow(BW4);
title('Canny Method');

BW5=edge(J,'log');
subplot(2,4,7);
imshow(BW5);
title('Laplacian of Gaussian');
```

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Original Image      Gaussian Noise      Sobel Method      Prewitt Method



Gaussian Noise



Sobel Method



Prewitt Method



Roberts Method



Canny Method



Laplacian of Gaussian



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