

```
% Compute edge detection with MATLAB,  
% and compare with the outcome of problem (1).
```

```
% read edge_patch (5*5)  
edge_patch = imread('./images/edge_patch.jpg');
```

```
% visualize edge patch  
figure;  
imshow(edge_patch, 'InitialMagnification', 3000);  
title('edge_patch')
```



```
% canny edge detection  
edge_patch_canny = edge(edge_patch, 'canny')
```

```
edge_patch_canny = 5x5 logical array  
 0  0  0  0  0  
 0  0  1  0  0  
 0  0  1  0  0  
 0  0  1  0  0  
 0  0  0  0  0
```

```
% visualize canny edge  
imshow(edge_patch_canny, 'InitialMagnification', 3000)  
title('Canny Edge')
```

