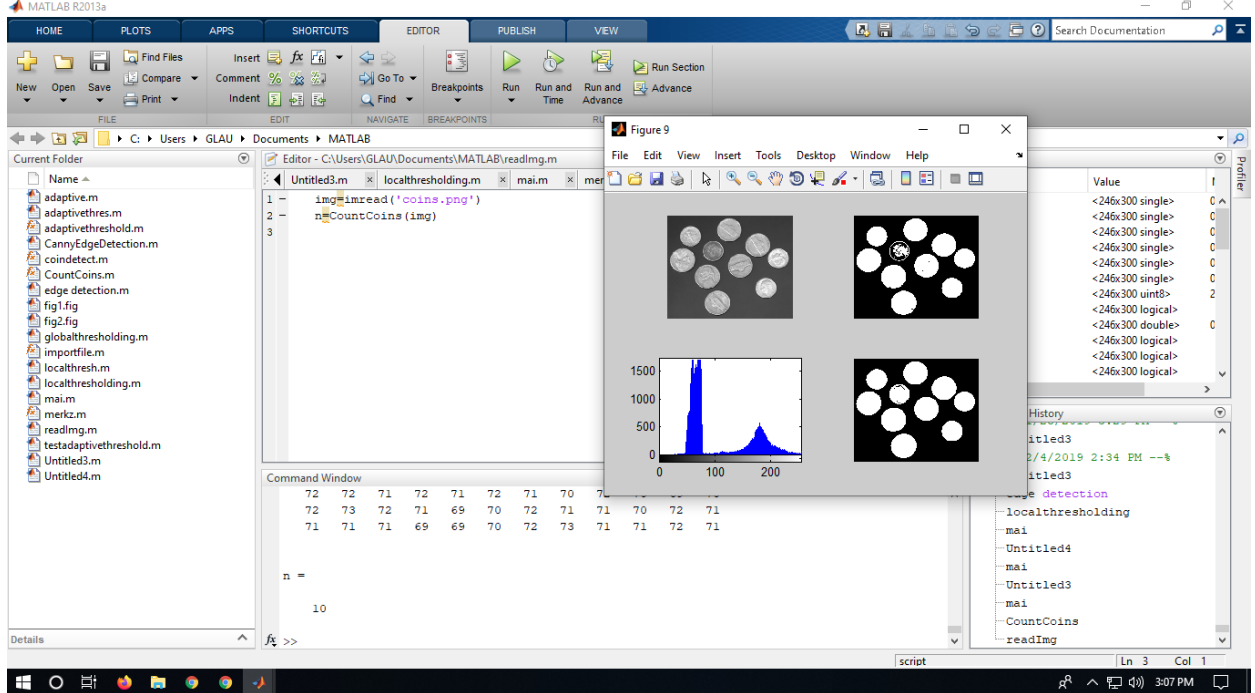
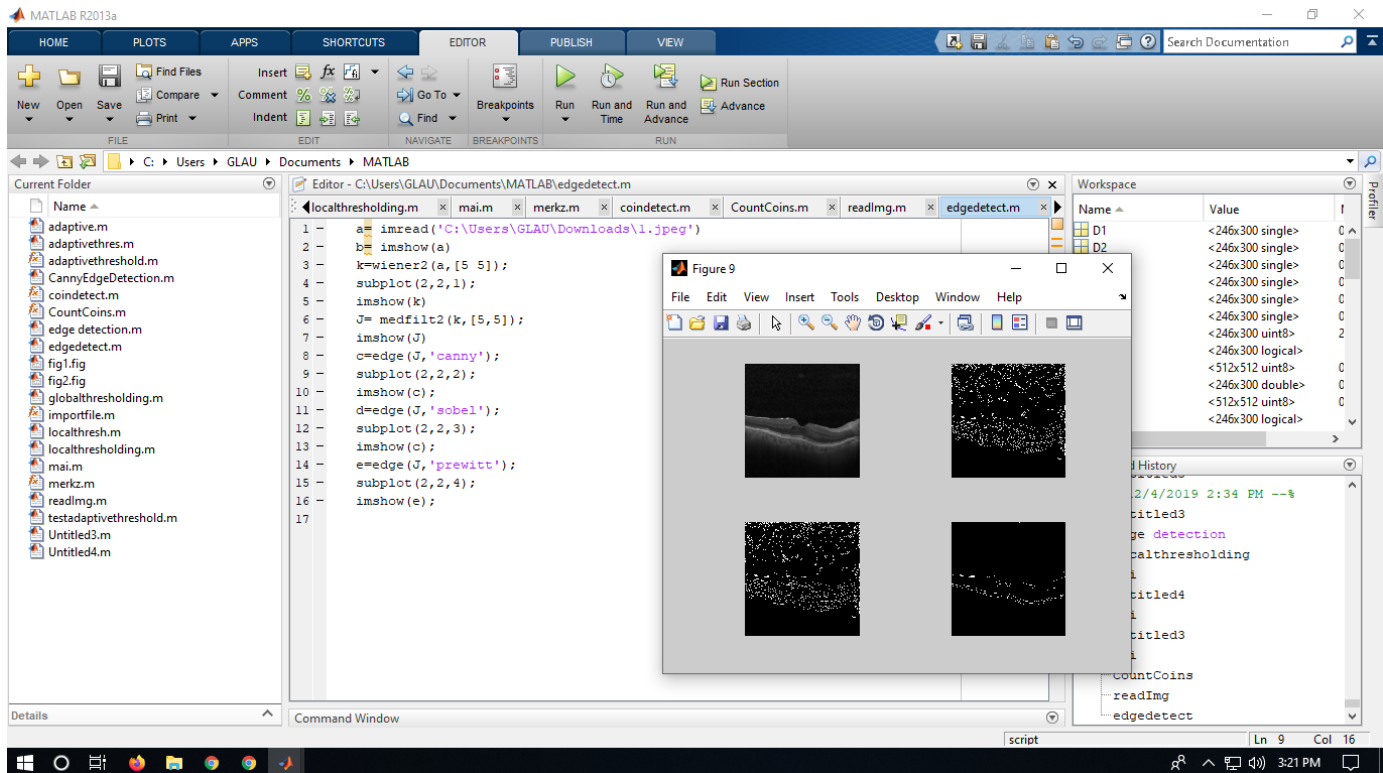


CountCoins

```
function ret = CountCoins(img)
    subplot(2,2,1);
    imshow(img);
    subplot(2,2,2);
    imgBW = im2bw(img);
    imshow(imgBW);
    subplot(2,2,3);
    imhist(img);
    subplot(2,2,4);
    imgZ = zeros(size(img));
    imgZ(img > 100) = 1;
    imshow(imgZ);
    ret = round(sum(imgBW(:)) / 2100);
    imgConn = bwconncomp(imgZ);
    ret = imgConn.NumObjects;
end
```

ReadImg

```
img=imread('coins.png')
n=CountCoins(img)
```



MATLAB R2013a

HOME PLOTS APPS SHORTCUTS EDITOR PUBLISH VIEW

New Open Save Find Files Insert Comment Indent Go To Breakpoints Run Run and Time Run and Advance Run Section Advance

FILE EDIT NAVIGATE BREAKPOINTS RUN

C:\Users\GLAU\Documents\MATLAB\CountCoins.m

Current Folder

adapative.m
adaptivethresh.m
adaptivethreshhold.m
CannyEdgeDetection.m
coindetect.m
CountCoins.m
edge detection.m
fig1.fig
fig2.fig
globalthreshholding.m
importfile.m
localthresh.m
localthreshholding.m
mai.m
merkz.m
readimg.m
testadaptivethreshhold.m
Untitled3.m
Untitled4.m

Editor - C:\Users\GLAU\Documents\MATLAB\CountCoins.m

```
1 function ret = CountCoins(img)
2     subplot(2,2,1);
3     imshow(img);
4     subplot(2,2,2);
5     imgBW = im2bw(img);
6     imshow(imgBW);
7     subplot(2,2,3);
8     imhist(img);
9     subplot(2,2,4);
10    imgZ = zeros(size(img));
11    imgZ(img > 100) = 1;
12    imshow(imgZ);
13    ret = round(sum(imgBW(:)) / 2100);
14    imgConn = bwconncomp(imgZ);
15    ret = imgConn.NumObjects;
16 end
```

Command Window

```
n =
    10

n =
    10
```

Workspace

Name	Value	Type
D1	<246x300 single>	0
D2	<246x300 single>	0
D3	<246x300 single>	0
D4	<246x300 single>	0
D5	<246x300 single>	0
D6	<246x300 single>	0
I1	<246x300 uint8>	2
I2	<246x300 logical>	0
Label	<246x300 double>	0
a1	<246x300 logical>	0
a2	<246x300 logical>	0
a3	<246x300 logical>	0

Command History

```
Untitled3
edge detection
localthreshholding
mai
Untitled4
mai
Untitled3
mai
CountCoins
readimg
```

CountCoins Ln 8 Col 14 3:06 PM