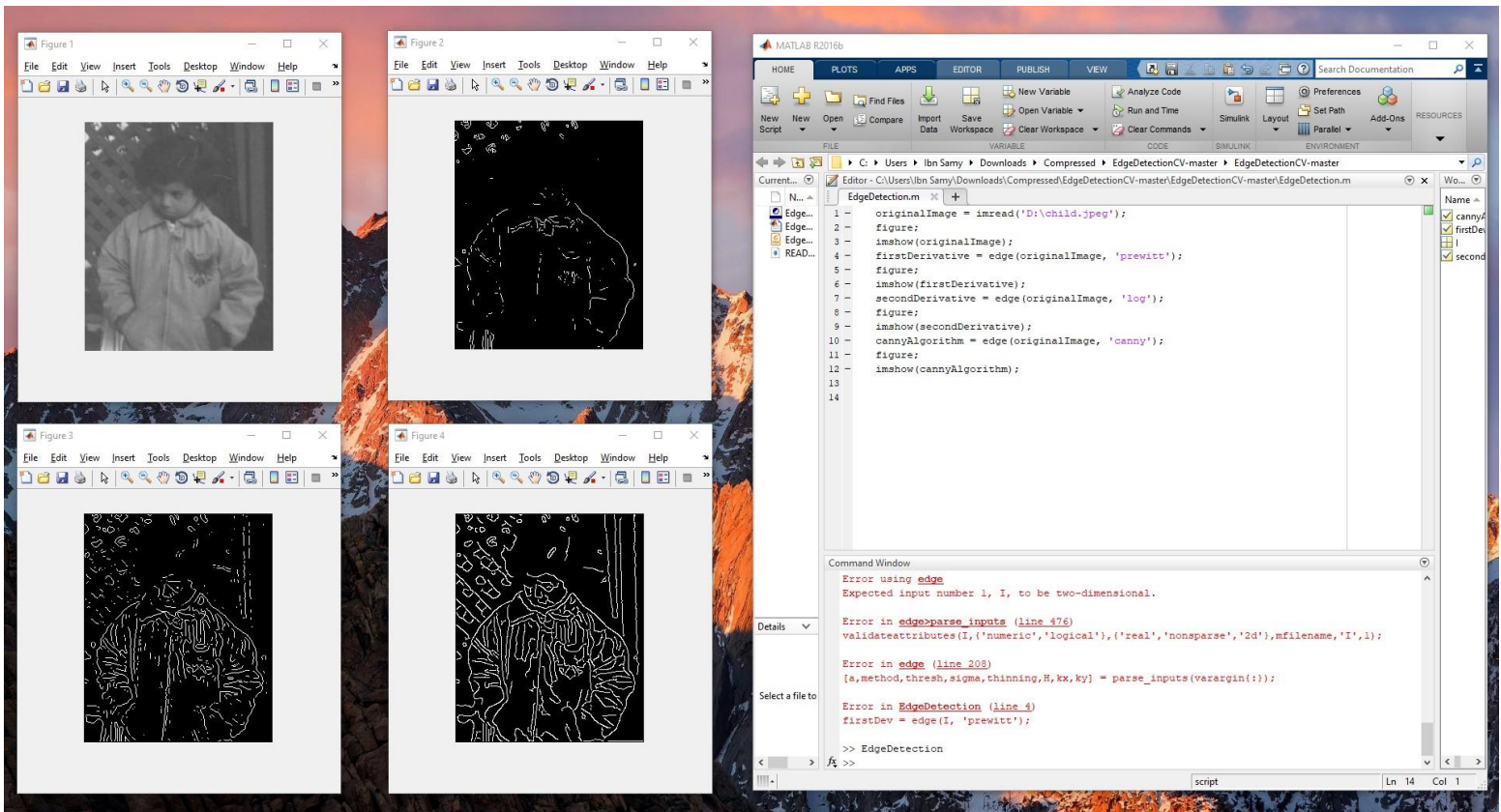# First Derivative, Second Derivative & Canny Algorithm

Mahmoud Samy Mohamed Mahmoud – Section 3

```
originalImage = imread('D:\child.jpeg');
figure;
imshow(originalImage);
firstDerivative = edge(originalImage, 'prewitt');
figure;
imshow(firstDerivative);
secondDerivative = edge(originalImage, 'log');
figure;
imshow(secondDerivative);
cannyAlgorithm = edge(originalImage, 'canny');
figure;
imshow(cannyAlgorithm);
```


It's obvious that canny algorithm (figure4) did better job and presented the best edges.