Name: Abdelrhman Ahmed Khater Sec: 2

```
I = imread('coins.png');
figure;
imshow(I); %show original image
firstDev = edge(I, 'prewitt');
figure;
imshow(firstDev); % show edges with first derivative
secondDev = edge(I, 'log');
figure;
imshow(secondDev); % show edges with second derivative
cannyAlg = edge(I, 'canny');
figure;
imshow(cannyAlg); % show edges with canny algorithm
 Figure 1
                                            Figure 2
 <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>I</u>nsert <u>T</u>ools <u>D</u>esktop <u>W</u>indow <u>H</u>elp
                                         File Edit View Insert Tools Desktop Window Help
                                           🖺 🗃 📓 🦫 🗒 📗 🔡 🖟 🛅
🖺 😅 💹 🦫 🗒 📗 📰 🔓 🔳
                        台中中日台
 Figure 3
                                            Figure 4
                                                                             <u>File Edit View Insert Tools Desktop Window Help</u>
                                           <u>F</u>ile <u>E</u>dit <u>V</u>iew <u>I</u>nsert <u>T</u>ools <u>D</u>esktop <u>W</u>indow <u>H</u>elp
🖺 😅 💹 🦫 🗒 📗 🔡 🖟 頂
                                            🖺 🗟 📓 🦫 😓 📗 🖺 🖟
```

I see that canny algorithm shows the best shapes of edges and clear.