

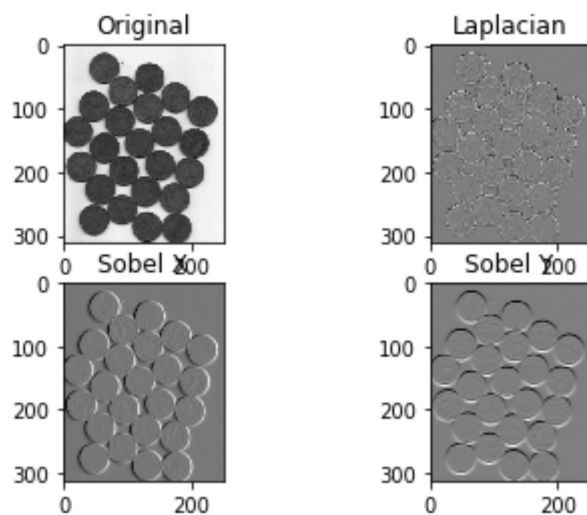
```
In [3]: import cv2
import numpy as np
from matplotlib import pyplot as plt

img=cv2.imread('F:\water_coins.jpg',0)

laplacian=cv2.Laplacian(img,cv2.CV_64F)
sobelx=cv2.Sobel(img,cv2.CV_64F,1,0,ksize=5)
sobely=cv2.Sobel(img,cv2.CV_64F,0,1,ksize=5)

plt.subplot(2,2,1),plt.imshow(img,cmap='gray')
plt.title('Original')
plt.subplot(2,2,2),plt.imshow(laplacian,cmap='gray')
plt.title('Laplacian')
plt.subplot(2,2,3),plt.imshow(sobelx,cmap='gray')
plt.title('Sobel X')
plt.subplot(2,2,4),plt.imshow(sobely,cmap='gray')
plt.title('Sobel Y')

plt.show()
```



In []: