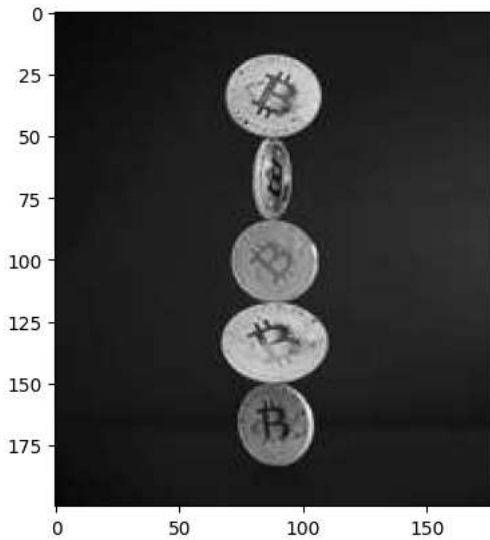


```
# Import libraries
import cv2
import numpy as np
import matplotlib.pyplot as plt
```

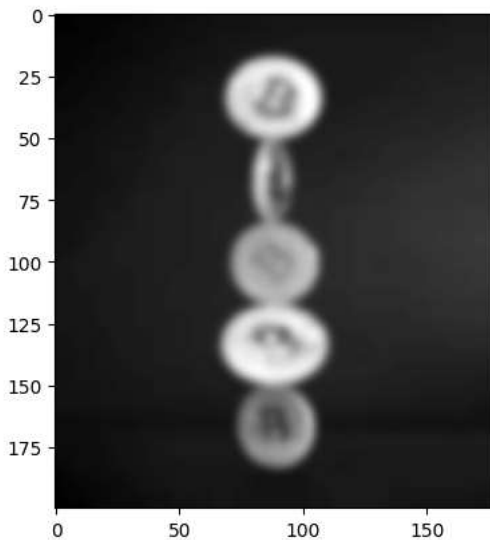
```
image = cv2.imread('/content/coins.jpg')
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)
plt.imshow(gray, cmap='gray')
```

<matplotlib.image.AxesImage at 0x7e1988c8efe0>



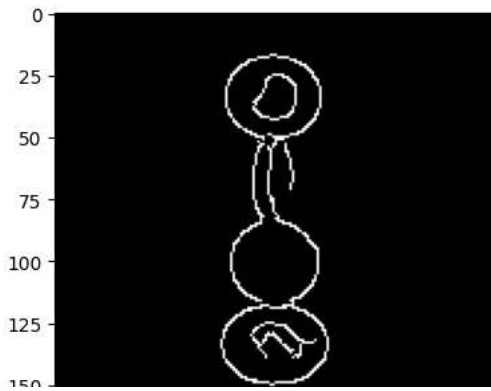
```
blur = cv2.GaussianBlur(gray, (11, 11), 0)
plt.imshow(blur, cmap='gray')
```

<matplotlib.image.AxesImage at 0x7e1988bd5ed0>



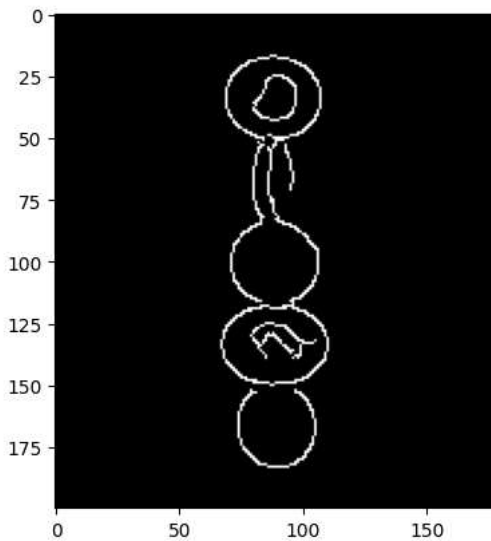
```
canny = cv2.Canny(blur, 30, 150, 3)
plt.imshow(canny, cmap='gray')
```

<matplotlib.image.AxesImage at 0x7e1978e070d0>



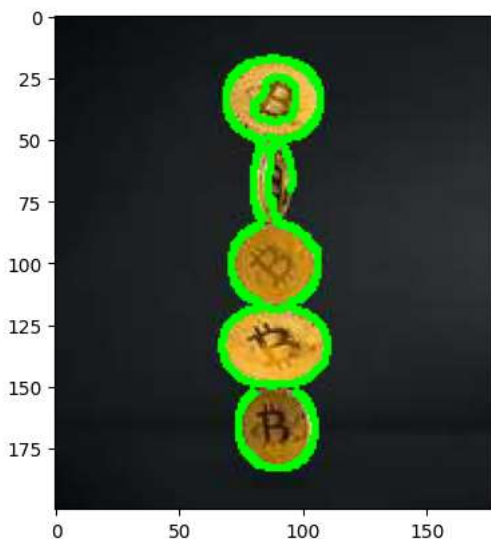
```
dilated = cv2.dilate(canny, (1, 1), iterations=0)
plt.imshow(dilated, cmap='gray')
```

<matplotlib.image.AxesImage at 0x7e1978e1e290>



```
(cnt, hierarchy) = cv2.findContours(
    dilated.copy(), cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_NONE)
rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
cv2.drawContours(rgb, cnt, -1, (0, 255, 0), 2)
plt.imshow(rgb)
```

<matplotlib.image.AxesImage at 0x7e1978d01210>



```
print("coins in the image : ", len(cnt))

coins in the image : 5

# Import libraries
import cv2
import numpy as np
import matplotlib.pyplot as plt

image = cv2.imread('coins.jpg')
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

blur = cv2.GaussianBlur(gray, (11, 11), 0)
canny = cv2.Canny(blur, 30, 150, 3)
dilated = cv2.dilate(canny, (1, 1), iterations=0)

(cnt, hierarchy) = cv2.findContours(
    dilated.copy(), cv2.RETR_EXTERNAL, cv2.CHAIN_APPROX_NONE)
rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
cv2.drawContours(rgb, cnt, -1, (0, 255, 0), 2)

print("coins in the image : ", len(cnt))

coins in the image : 5
```