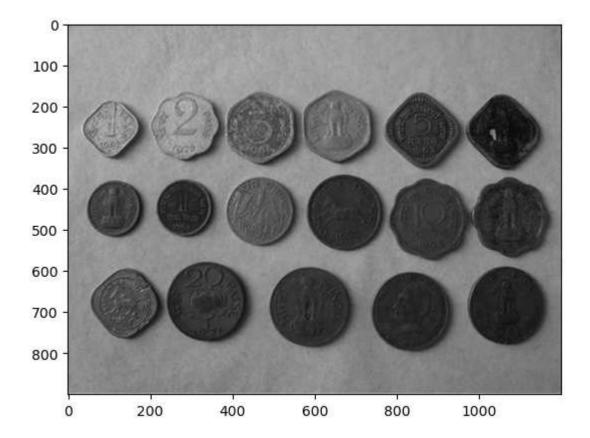
```
In [1]: import cv2
import numpy
import matplotlib.pyplot as plt

In [2]: image=cv2.imread('coins_2.jpg')

In [4]: gray=cv2.cvtColor(image,cv2.COLOR_BGR2GRAY)

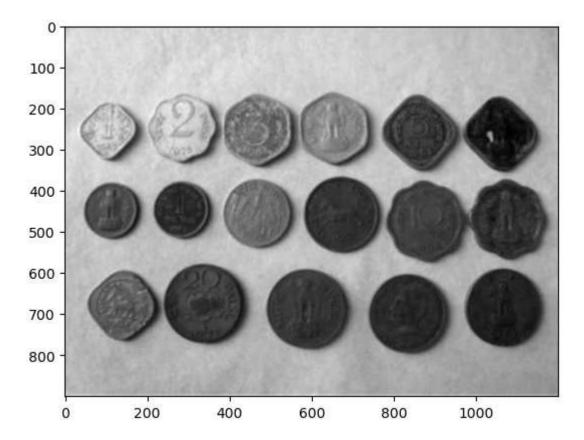
In [5]: plt.imshow(gray,cmap='gray')
```

Out[5]: <matplotlib.image.AxesImage at 0x15c545263d0>



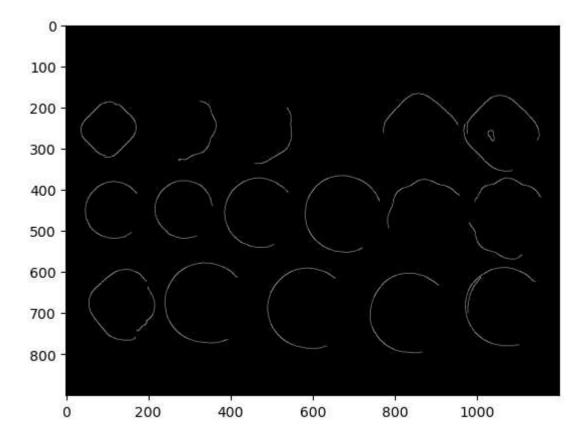
In [7]: blur=cv2.GaussianBlur(gray,(11,11),0)
plt.imshow(blur,cmap='gray')

Out[7]: <matplotlib.image.AxesImage at 0x15c54693250>



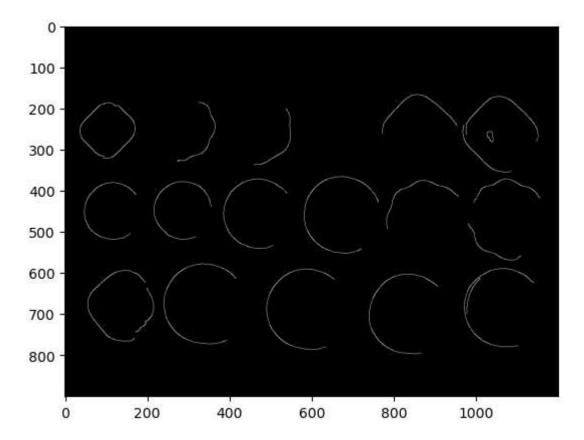
```
In [9]: canny=cv2.Canny(blur,30,150,3)
plt.imshow(canny,cmap='gray')
```

Out[9]: <matplotlib.image.AxesImage at 0x15c56eeb850>



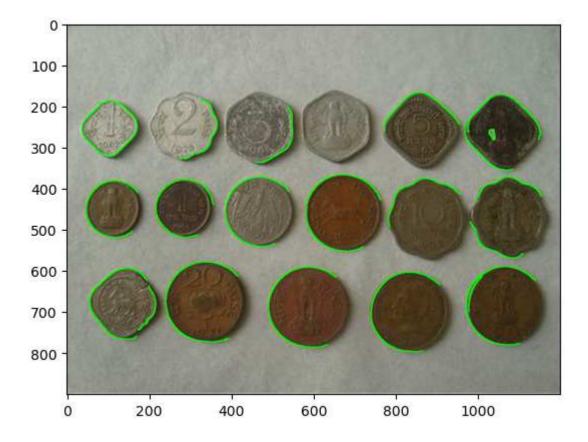
```
In [12]: dilated=cv2.dilate(canny,(1,1),iterations=0)
    plt.imshow(dilated,cmap='gray')
```

Out[12]: <matplotlib.image.AxesImage at 0x15c56f58dc0>



```
In [13]: (cnt, hierarchy) = cv2.findContours(dilated.copy(), cv2.RETR_EXTERNAL, cv2.CHA
    rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
    cv2.drawContours(rgb, cnt, -1, (0, 255, 0), 2)
    plt.imshow(rgb)
```

Out[13]: <matplotlib.image.AxesImage at 0x15c56fc94f0>



In [14]: print("coins in the image : ", len(cnt))

coins in the image: 22