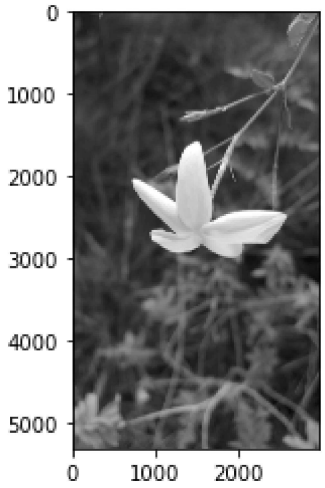
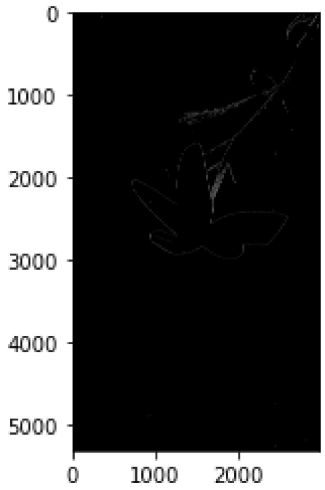
In [11]:

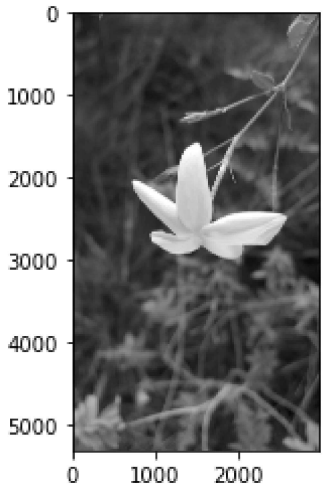
```
import cv2
import numpy as np
import matplotlib.pyplot as plt

# read the image
image = cv2.imread(r"C:\Users\lenovo\OneDrive\Desktop\project\little_flower.jpg")

# convert it to grayscale
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

# show the grayscale image
plt.imshow(gray, cmap="gray")
plt.show()

# perform the canny edge detector to detect image edges
edges = cv2.Canny(gray, threshold1=30, threshold2=100)

# show the edge detected image
plt.imshow(edges, cmap="gray")
plt.show()
```





In [12]:

```
import cv2
import numpy as np
import matplotlib.pyplot as plt

# read the image
image = cv2.imread(r"C:\Users\lenovo\OneDrive\Desktop\project\little_flower.jpg")

# convert it to grayscale
gray = cv2.cvtColor(image, cv2.COLOR_BGR2GRAY)

# show the grayscale image
plt.imshow(gray, cmap="gray")
plt.show()

# perform the canny edge detector to detect image edges
edges = cv2.Canny(gray, threshold1=30, threshold2=100)

# find contours in the edge-detected image
contours, hierarchy = cv2.findContours(edges, cv2.RETR_TREE, cv2.CHAIN_APPROX_SIMPLE)

# draw contours on the original image
image_with_contours = cv2.drawContours(image, contours, -1, (0, 255, 0), 3)

# show the image with contours
plt.imshow(image_with_contours)
plt.show()
```



In [ ]: