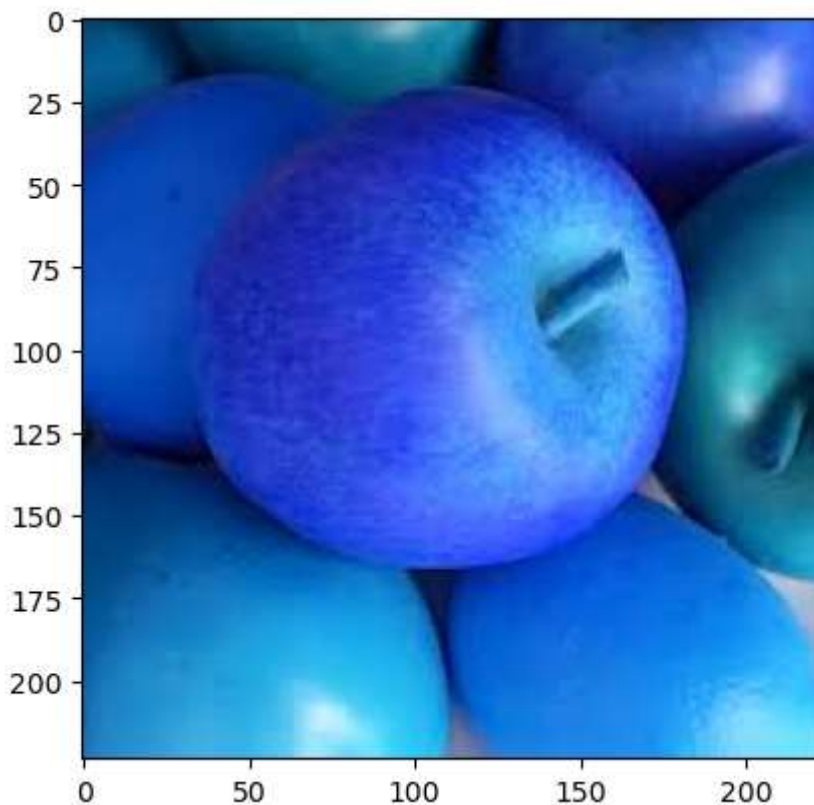


```
In [1]: import random
import cv2
from matplotlib import pyplot as plt
```

```
In [2]: def add_noise(img):
    row , col = img.shape
    number_of_pixels = random.randint(300, 10000)
    for i in range(number_of_pixels):
        ycord=random.randint(0, row - 1)
        xcord=random.randint(0, col - 1)
        img[ycord][xcord] = 255
    number_of_pixels = random.randint(300 , 10000)
    for i in range(number_of_pixels):
        ycord=random.randint(0, row - 1)
        xcord=random.randint(0, col - 1)
        img[ycord][xcord] = 0

    return img
```

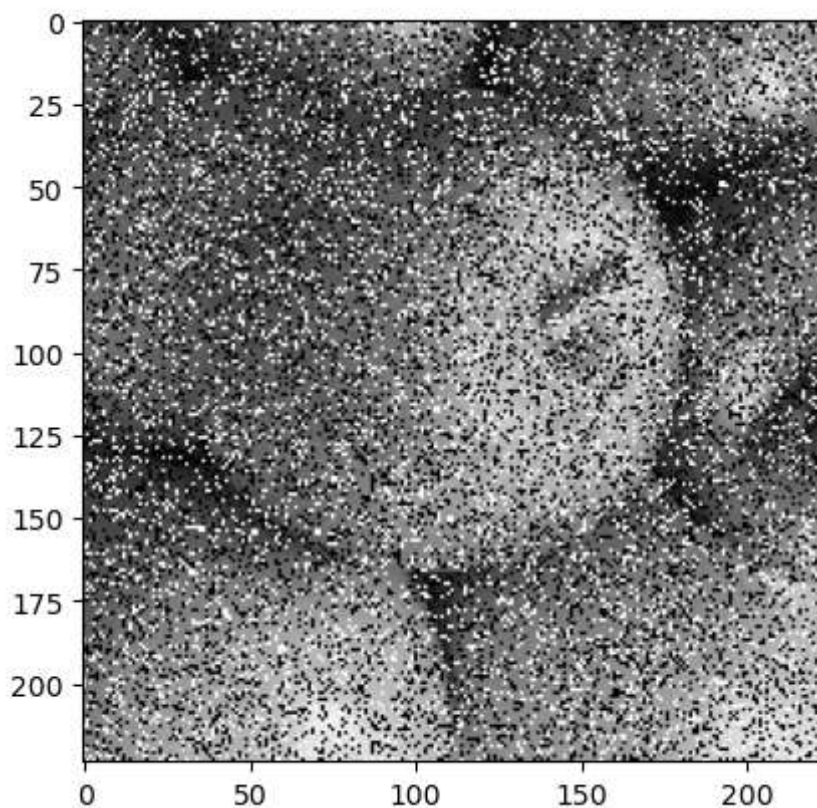
```
In [3]: image = cv2.imread('apple.jpg')
plt.imshow(image)
plt.show()
```



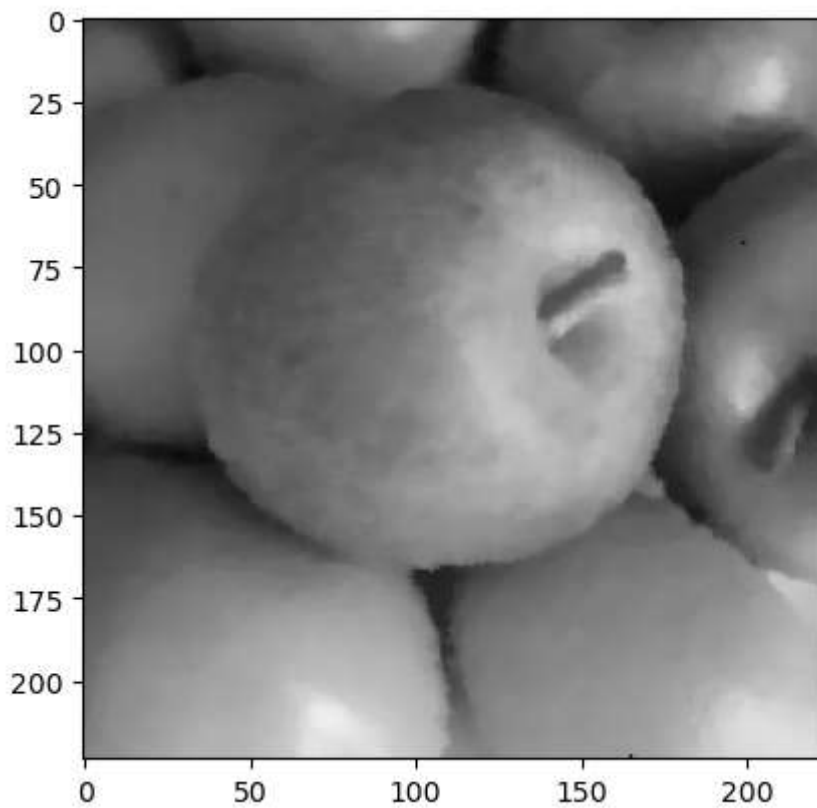
```
In [4]: image_rgb = cv2.cvtColor(image, cv2.COLOR_BGR2RGB)
plt.imshow(image_rgb)
plt.show()
```



```
In [5]: img = cv2.imread('apple.jpg',cv2.IMREAD_GRAYSCALE)
cv2.imwrite('applewithnoise.jpg',add_noise(img))
noise_image = cv2.imread('applewithnoise.jpg')
plt.imshow(noise_image)
plt.show()
```



```
In [6]: median = cv2.medianBlur(noise_image, 5)  
plt.imshow(median)  
plt.show()
```



```
In [ ]:
```