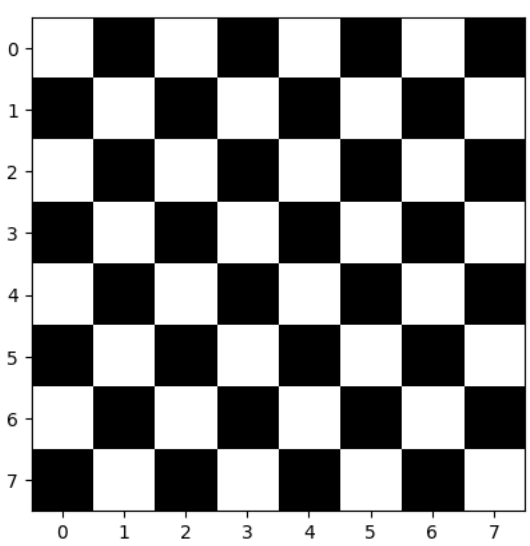
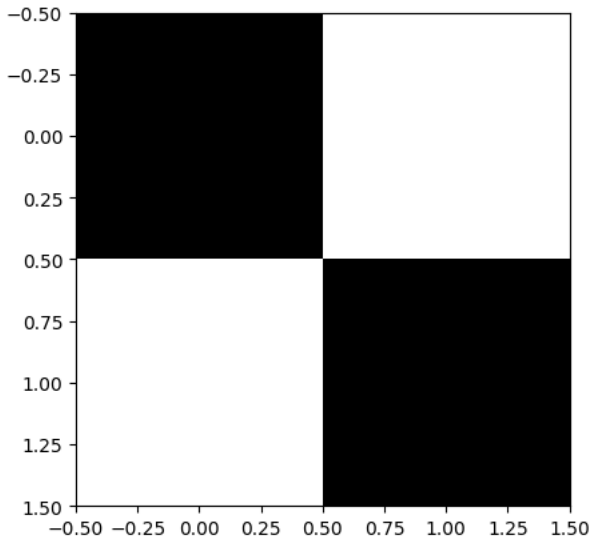
```
import cv2
import numpy as np
import matplotlib.pyplot as plt
from google.colab.patches import cv2_imshow
from PIL import Image
```

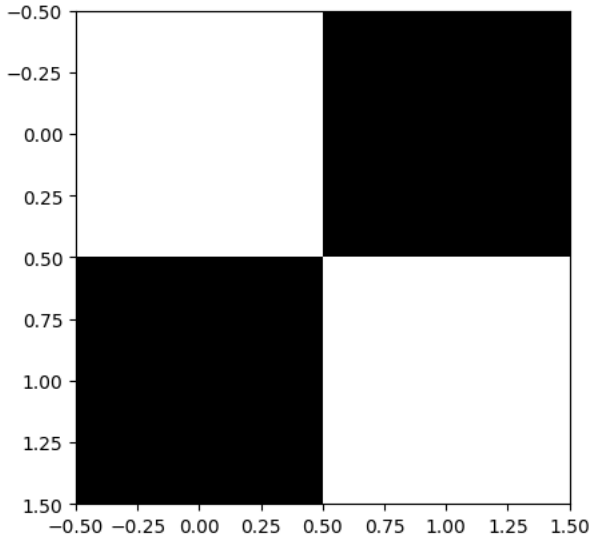
```
chess=[[1,0,1,0,1,0,1,0],[0,1,0,1,0,1,0,1],[1,0,1,0,1,0,1,0] ,[0,1,0,1,0,1,0,1],[1,0,1,0,1,0,1,0],[0,1,0,1,0,1,0,1],[1,0,1,0,1,0,1,0],[0,
plt.imshow(chess , cmap='gray')
plt.show()
```




```
box=[[0,1],[1,0]];
plt.imshow(box , cmap='gray')
plt.show()
```

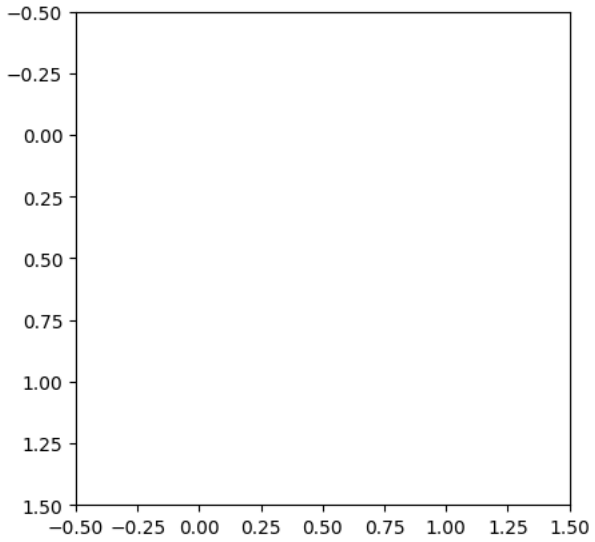



```
box1=[[1,0],[0,1]];
plt.imshow(box1 , cmap='gray')
plt.show()
```




```
i2 = np.array(box)
i3 = np.array(box1)
addition = i2 + i3

plt.imshow(addition, cmap='gray', vmin=0,vmax=1)
plt.show()
print(addition)
```




```
[[1 1]
 [1 1]]
```

```
image1 = cv2.imread('7.jpg')
image2 = cv2.imread('6.jpg')
re_img=cv2.resize(image1,(500,700))
re_img2=cv2.resize(image2,(500,700))
h = np.hstack((re_img,re_img2))


# the window showing output image
# with the weighted sum
cv2_imshow( h)
```