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### **# 8\*8 Checkerboard using the for loop**

```
import cv2
import numpy as np
img= np.zeros((300 , 300 , 3))
for i in range(0 , 300 , 200):
    for j in range(0 , 300 , 200):
        img[i:i+100 , j : j + 100]=255,255,255
        img[i+100:i+200,j+100:j+200]=255,255,255
```

```
cv2.imshow('CheckerBoard',img)
cv2.waitKey(0)
cv2.destroyAllWindows( )
```

### **#Checkerboard by indexing**

```
import cv2
import numpy as np
img=np.zeros((800,800,3))
img[0:100,0:100]=255,255,255
img[0:100,200:300]=255,255,255
img[0:100,400:500]=255,255,255
img[0:100,600:700]=255,255,255
img[200:300,0:100]=255,255,255
img[200:300,200:300]=255,255,255
img[200:300,400:500]=255,255,255
img[200:300,600:700]=255,255,255
img[400:500,0:100]=255,255,255
img[400:500,200:300]=255,255,255
img[400:500,400:500]=255,255,255
img[400:500,600:700]=255,255,255
```

```
img[600:700,0:100]=255,255,255
img[600:700,200:300]=255,255,255
img[600:700,400:500]=255,255,255
img[600:700,600:700]=255,255,255
img[100:200,100:200]=255,255,255
img[100:200,300:400]=255,255,255
img[100:200,500:600]=255,255,255
img[100:200,700:800]=255,255,255
img[300:400,700:800]=255,255,255
img[300:400,100:200]=255,255,255
img[300:400,300:400]=255,255,255
img[300:400,500:600]=255,255,255
img[500:600,100:200]=255,255,255
img[500:600,300:400]=255,255,255
img[500:600,500:600]=255,255,255
img[500:600,700:800]=255,255,255
img[700:800,100:200]=255,255,255
img[700:800,300:400]=255,255,255
img[700:800,500:600]=255,255,255
img[700:800,700:800]=255,255,255
cv2.imshow('CheckerBoard',img)
cv2.waitKey(0)
cv2.destroyAllWindows( )
```

## OUTPUT:

