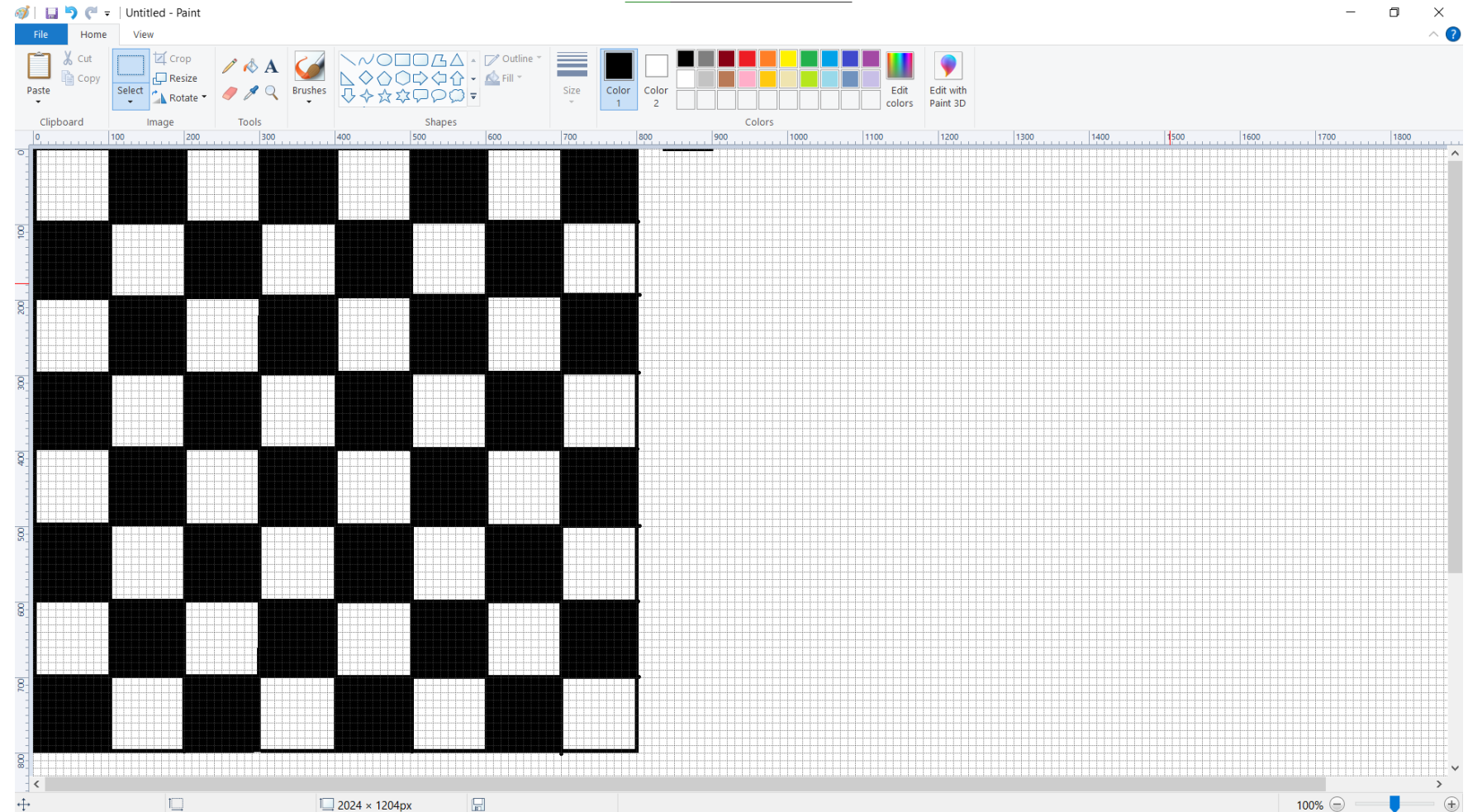# Chess Board

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- Mini Project

Aim –
To make a chess board using opencv python library

Step1: First of all we will create a sample image in paint with the proper coordinates in it.

Step 2: According to the coordinates of the chess boxes , we will write the values inside the array.

Step 3: The loop is created in such a way , that at a time it will work on two rows and columns, i.e even and odd one.

```python
# CHESS BOARD 8X8

import numpy as np
import cv2

# making the background black
img = np.zeros((800,800,3))
for i in range(4):
    row = 200*i # odd rows
    row2 = row +100 # even rows
    for j in range(4):
        col = 200*j  # odd columns
        col2 = col + 100 # even columns
        img[row:(row+100), col:(col+100)]= 255,255,255
        img[row2:(row2+100), col2:(col+100)]= 255,255,255

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

```python
   Chess board.py > ...
2
3    from cv2 import COLOR_BGR2HLS
4    import numpy as np
5    import cv2
6
7    # making the background black
8    img = np.zeros((800,800,3))
9    for i in range(4):
10       row = 200*i # odd rows
11       row2 = row +100 # even rows
12       for j in range(4):
13           col = 200*j  # odd columns
14           col2 = col + 100 # even columns
15           img[row:(row+100), col:(col+100)]= 255,255,255
16           img[row2:(row2+100), col2:(col2+100)]= 255,255,255
17
18   cv2.imshow('CHESS BOARD',img)
19   cv2.waitKey(0)
20   cv2.destroyAllWindows()
21
```

Result

So, here we get the chess board having 8x8