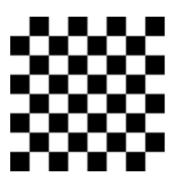
plt.show()

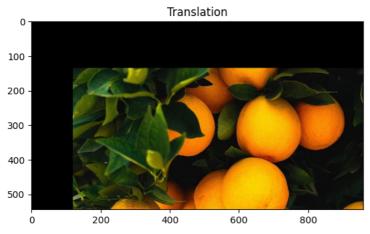
ARDIANSYAH 1207070018





```
import cv2 as cv
import numpy as np
import matplotlib.pyplot as plt
from google.colab import drive
# Mount Google Drive
drive.mount('/content/drive')
# Path ke file foto di Google Drive
file_path = "/content/drive/MyDrive/orange.jpg"
image = cv.imread(file_path)
h, w = image.shape[:2]
half_height, half_width = h//4, w//8
transition_matrix = np.float32([[1, 0, half_width],
                                [0, 1, half_height]])
img_transition = cv.warpAffine(image, transition_matrix, (w, h))
plt.imshow(cv.cvtColor(img_transition, cv.COLOR_BGR2RGB))
plt.title("Translation")
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=T



```
import cv2 as cv
import numpy as np
import matplotlib.pyplot as plt
from google.colab import drive

# Menghubungkan dengan Google Drive
drive.mount('/content/drive')

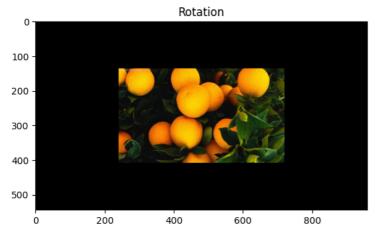
# Path file di Google Drive
file_path = '/content/drive/MyDrive/orange.jpg'

image = cv.imread(file_path)
h, w = image.shape[:2]

rotation_matrix = cv.getRotationMatrix2D((w/2, h/2), -180, 0.5)
rotated_image = cv.warpAffine(image, rotation_matrix, (w, h))

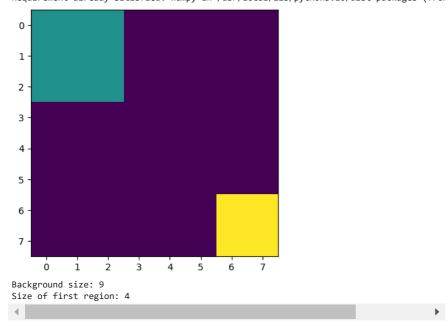
plt.imshow(cv.cvtColor(rotated_image, cv.COLOR_BGR2RGB))
plt.title("Rotation")
plt.show()
```

Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=T



```
!pip install mahotas
import numpy as np
import matplotlib.pyplot as plt
from scipy import ndimage
regions = np.zeros((8, 8), bool)
regions[:3, :3] = 1
regions[6:, 6:] = 1
labeled, nr_objects = ndimage.label(regions)
plt.imshow(labeled, interpolation='nearest')
plt.show()
labeled, nr_objects = ndimage.label(regions, np.ones((3, 3), bool))
sizes = ndimage.labeled\_comprehension(regions, labeled, np.arange(1, nr\_objects+1), np.sum, int, 0)\\
print('Background size:', sizes[0])
print('Size of first region:', sizes[1])
array = np.random.random_sample(regions.shape)
\verb|sums| = \verb|ndimage.labeled_comprehension(array, labeled, np.arange(1, nr_objects+1), np.sum, float, 0)| \\
print('Sum of first region:', sums[1])
```

Looking in indexes: https://us-python.pkg.dev/colab-wheels/Requirement already satisfied: mahotas in /usr/local/lib/python3.10/dist-packages (1 Requirement already satisfied: numpy in /usr/local/lib/python3.10/dist-packages (from



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