import numpy as np

import cv2 as cv

img = cv.imread('messi5.jpg')

res = cv.resize(img,None,fx=2, fy=2, interpolation = cv.INTER\_CUBIC)

#OR

height, width = img.shape[:2]

res = cv.resize(img,(2\*width, 2\*height), interpolation = cv.INTER\_CUBIC)

import numpy as np

import cv2 as cv

img = cv.imread('messi5.jpg',0)

rows,cols = img.shape

M = np.float32([[1,0,100],[0,1,50]])

dst = cv.warpAffine(img,M,(cols,rows))

cv.imshow('img',dst)

cv.waitKey(0)

cv.destroyAllWindows()

img = cv.imread('messi5.jpg',0)

rows,cols = img.shape

# cols-1 and rows-1 are the coordinate limits.

M = cv.getRotationMatrix2D(((cols-1)/2.0,(rows-1)/2.0),90,1)

dst = cv.warpAffine(img,M,(cols,rows))

'''

img = cv.imread('drawing.png')

rows,cols,ch = img.shape

pts1 = np.float32([[50,50],[200,50],[50,200]])

pts2 = np.float32([[10,100],[200,50],[100,250]])

M = cv.getAffineTransform(pts1,pts2)

dst = cv.warpAffine(img,M,(cols,rows))

plt.subplot(121),plt.imshow(img),plt.title('Input')

plt.subplot(122),plt.imshow(dst),plt.title('Output')

plt.show()