import cv2 as cv

import numpy as np

from matplotlib import pyplot as plt

img = cv.imread('gradient.png',0)

cv.imshow('Original Image',img)

ret,thresh1 = cv.threshold(img,127,255,cv.THRESH\_BINARY)

ret,thresh2 = cv.threshold(img,127,255,cv.THRESH\_BINARY\_INV)

ret,thresh3 = cv.threshold(img,127,255,cv.THRESH\_TRUNC)

ret,thresh4 = cv.threshold(img,127,255,cv.THRESH\_TOZERO)

ret,thresh5 = cv.threshold(img,127,255,cv.THRESH\_TOZERO\_INV)

#cv.imshow('Threshold Image',thresh5)

titles = ['Original Image','BINARY','BINARY\_INV','TRUNC','TOZERO','TOZERO\_INV']

images = [img, thresh1, thresh2, thresh3, thresh4, thresh5]

for i in range(6):

plt.subplot(2,3,i+1),plt.imshow(images[i], 'gray')

plt.xticks([]),plt.yticks([])

plt.show()

cv.waitKey()

cv.destroyAllWindows()