QUIZ

import cv2 as cv

import numpy as np

img = cv.imread('images/city.jpeg')

cv.imshow('city image', img)

data=np.asarray(img)

print(data)

data.shape

newdata = data.reshape(1000,615,3)

newdata.shape

cv.imshow('reshaped', newdata)

cv.imwrite('rehaped\_image.jpg', newdata)

#5 functions of OpenCv

#converting image to gray scale

gray\_img = cv.cvtColor(img, cv.COLOR\_BGR2GRAY)

cv.imshow('gray', gray\_img)

#blur

blur = cv.GaussianBlur(img, (3,3), cv.BORDER\_DEFAULT)

cv.imshow('blur', blur)

#edge cascade(edge detection)

canny = cv.Canny(img, 125, 150)

cv.imshow('edge detection', canny)

#dilating the image

dilated\_img = cv.dilate(canny, (7,7), iterations=3)

cv.imshow('dilated image', dilated\_img)

#eroding image

eroded\_img = cv.erode(dilated\_img, (7,7), iterations=3)

cv.imshow('eroded image', eroded\_img)

cv.waitKey(0)

cv.destroyAllWindows()

# 5 functions of numpy

print(np.sort(data))

print(np.sum(data))

print(np.cumsum(data))

print(np.mean(data))

print(np.array\_split(newdata,2))