Line detection using opencv

import numpy as np

import cv2

video\_capture = cv2.VideoCapture(0)

black\_lower=np.array([0,0,0])

black\_upper=np.array([180,255,30])

while(True):

ret, frame = video\_capture.read()

blur = cv2.GaussianBlur(frame,(5,5),0)

hsv = cv2.cvtColor(blur, cv2.COLOR\_BGR2HSV)

mask=cv2.inRange(hsv,black\_lower,black\_upper)

ret,thresh = cv2.threshold(mask,60,255,cv2.THRESH\_BINARY\_INV)

contours,hierarchy = cv2.findContours(thresh.copy(), 1, cv2.CHAIN\_APPROX\_NONE)

for cnt in contours:

approx = cv2.approxPolyDP(cnt,0.01\*cv2.arcLength(cnt,True),True)

if len(approx)==5:

cv2.drawContours(frame, cnt, -1, (0,0,255), 1)

cv2.imshow('frame',frame)

if cv2.waitKey(1) & 0xFF == ord('q'):

break