In [1]:
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import cv2
import numpy as np
widthImg = 480
heightImg = 640
nPlateCascade = cv2.CascadeClassifier("haarcascade_russian_plate_number.xml")
minArea = 500
color = (255,0,255)
vcap = cv2.VideoCapture(0)
vcap.set(3,widthImg)
vcap.set(4,heightImg)
vcap.set(10,150)

while True:
    success, img = vcap.read()
    imgGray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
    numberPlates = nPlateCascade.detectMultiScale(imgGray, 1.1, 4)      # scale factor and minimu
    for (x,y,w,h) in numberPlates:
        area = w*h
        if area>minArea:
            cv2.rectangle (img, (x,y), (x+w, y+h), (255,0,0), 2)
            cv2.putText(img,"Number Plate", (x,y-5),cv2.FONT_HERSHEY_COMPLEX, 1, color,2)
            imgRoi =img[y:y+h,x:x+w]
            cv2.imshow("ROI", imgRoi )


    cv2.imshow("Result", img)
    if cv2.waitKey(1) & 0xFF ==ord('q'):
        break
```

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