```
import numpy as np
import cv2
import matplotlib.pyplot as plt
    mag, ang = cv2.cartToPolar(gx, gy, angleInDegrees=True)
    mag max = np.max(mag)
    height, width = img.shape
                  neighb_1_x, neighb_1_y = i_x, i_y - 1 neighb_2_x, neighb_2_y = i_x, i_y + 1
```

```
neighb_1_x, neighb_1_y = i_x - 1, i_y + 1
neighb_2_x, neighb_2_y = i_x + 1, i_y - 1
                   elif grad_ang > (22.5 + 135) and grad_ang <= (22.5 + 180):
    neighb_1_x, neighb_1_y = i_x - 1, i_y
    neighb_2_x, neighb_2_y = i_x + 1, i_y</pre>
                   if width > neighb_1_x >= 0 and height > neighb_1_y >= 0:
    if mag[i_y, i_x] < mag[neighb_1_y, neighb_1_x]:</pre>
                               mag[\overline{i} y, \overline{i} x] = 0
                   grad mag = mag[i y, i x]
                        mag[i_y, i_x] = 0
                         ids[i y, i x] = 2
frame = cv2.imread("D:\\rgb image.jpg",)
canny_img = Canny detector(frame)
cv2.imshow("rgb image", canny img)
cv2.waitKey(0)
```