PRACTICAL-10

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import numpy as np
import cv2
from google.colab.patches import cv2_imshow
img = cv2.imread('/content/hough.jpg', cv2.IMREAD_COLOR)
cv2_imshow(img)
gray = cv2.cvtColor(img, cv2.COLOR_BGR2GRAY)
edges = cv2.Canny(gray, 50, 200)
lines = cv2.HoughLinesP(edges, 1, np.pi/180, 68, minLineLength=15,
maxLineGap=250)
for line in lines:
   x1, y1, x2, y2 = line[0]
   cv2.line(img, (x1, y1), (x2, y2), (255, 0, 0), 3)
print("Line Detection using Hough Transform")
from google.colab.patches import cv2_imshow
cv2_imshow(img)
cv2.waitKey(0)
cv2.destroyAllWindows()
```

```
Line Detection using Hough Transform
```