

This Python code is used to capture video frames from a camera using OpenCV and detect angles between lines in the image. It uses the following libraries:

- cv2: The OpenCV library for computer vision tasks.
- math: The Python math library for mathematical operations.

Here's a brief overview of the code:

1. Create a Video Capture object to read from the camera.
2. Initialize the frame counter.
3. Read a frame from the camera, convert it to grayscale, and apply a Gaussian blur to reduce noise.
4. Detect edges in the image using the Canny edge detector.
5. Detect lines in the image using the Hough transform.
6. Calculate the angles between the lines and draw them on the image.
7. Increment the frame counter.
8. Display the image.
9. Exit the loop if the 'q' key is pressed.
10. Release the Video Capture object and close the OpenCV window.