MidTerm Project
Lane Detection
Class Diagram

LaneDetector
- attribute1:type = defaultValue - inputImage: Mat - grayImage: Mat - threshImage: Mat - bwImage: Mat - roiImage: Mat - edgedImage: Mat -lines: vector - rho: double = 1 - theta: double = 1 - hthreshold: double - leftSlope: double - rightSlope: double - leftPoints: vector - rightPoints: vector - meanLeftSlope: double - meanRightSlope: double - turnPredict: string
+ roiMaskSelection(Mat): Mat + hsvThreshold(Mat): Mat + edgeDetector(Mat): Mat + houghTransform(Mat): vector, vector + slopeCalculation(vector): double, double + predictTurn(double, double): string + plotResults(Mat, string, vector, vector): None