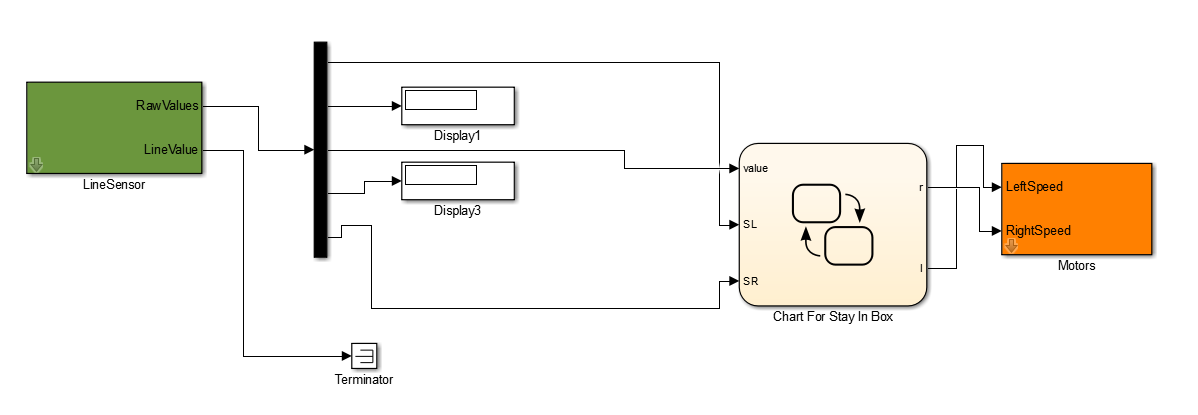
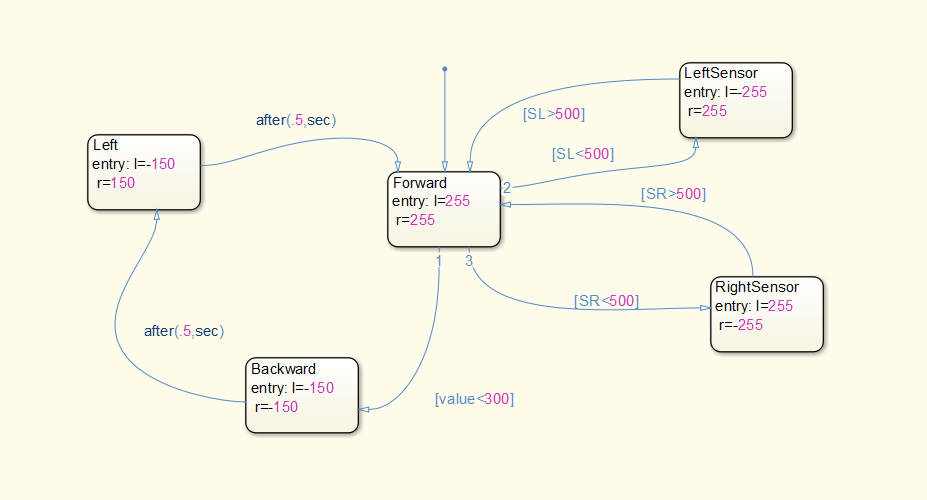
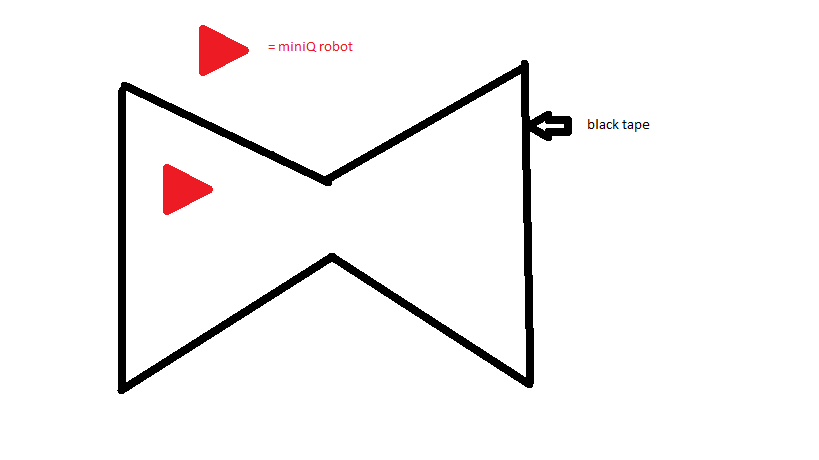
Goal: To incorporate additional sensors into the Simulink Chart for the purpose of creating program for a robot going through a taped off passage.

Standards Covered: (f), (i), (j)

Sequence:

1. Discuss including additional sensors to the “StayInBox.slx” what type of behavior would this then provide within the box. Create the following Simulink chart to be referred by students. Reference: StayInBoxExtraLineSensors.slx (*15 min)* 
2. The following chart should be provided to students after an initial experimentation period to provide them with guidance towards building a robot which stays within the box, and which also includes additional, functioning sensors: *(10 min)* 
3. As a group, discuss what including additional sensors does to the robots when placed within the confines of a taped off area. They should have already deployed some models to the MiniQs and recorded their observations. *(30 min)*
4. Students are given the challenge of creating a robot which can pass from one taped off area into a funnel outlined in black tape, to another boxed off area. This will mean that they need to include the outermost sensors to get the robot to pass through a tapped passage: *(60+ min)* 

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