**Automatous Robot that stays on a table**

This automatous robot uses IR sensors in order to sense where the table ends. I first tested the IR sensors to see what value they get when they are close vs far from objects. I found the threshold to be a value of about 400 with my sensors. After using the sensors I change the state of the robot by setting some Boolean variables in order to determine the actions to do later. I modeled this program off the Object Oriented Programming State Pattern. Based off the state of the robot I call various functions, I created.