**Week 4**

What we did this week was we moved the camera so that it was higher up which meant that it could actually get a good image and follow the line this is crucial because other the robot will not make it anywhere in the maze which is bad. Rachel wrote a bit of code so that it would back up when there were no white pixels. Doing this got us up to the B- mark for the robot this is good however we want to aim a bit higher so we are going to see if we can do that over the coming week if not a B- for the robot is fine. Stella and Rachel started working on the derivative response. While we were doing that, Shaun was working on a camera mount so that we could secure the camera in the higher position on the robot. Doing this is important because of the fact that if the camera is secure in a higher position we can actually get a good image of the line and the robot will be able to maneuver the maze easier and this was there is less of a chance the robot will fail on us come testing day. Shaun 3d printed the camera mount at the very end of the lab. Rachel has written another little bit of code to ensure that the motors will stop when we terminate the program this is important because otherwise the robot will keep moving and it could break. However this code has not been tested yet so we don’t know if it works or not. Also Dylan went into the lab on friday as well to work on the robot.