Armaan Malik

Mr. Eggli

04/08/19

Programing Logic

Capstone Final

1. In total there were 7 requirements which all had to be completed to receive full credit on the programing portion. The first was to pass through every box in the maze, which I programed my robot to do using move campands. Then you must program the scribbler to go around the square at least 4 times, which I did so using loops. Third you had to use proximity sensors while turning in the square, I used conditions to do so. The fourth requirement was for the scribbler to go into the dead end zone, which I programed it to do. Fifth one was for the scribbler to do a circle and not reverse while in the dead end zone which I completed. The sixth requirement was for the scribbler to navigate the T going through one side once, which I completed. Then the scribbler had to stay in the parking lot for at least 5 seconds before backing out, which I did by using a pause.
2. I experienced a lot of shortcoming in my first pass of code as some of the movements were invalid, causing the robot to go in a different direction. My robot had a difficult time staying on track to be able to go through all the squares so that the first requirement wasnt fully met. Also the code I used was plentiful as I had the option to minimize it, but did not do so till the final. In the final code I perfected everything that I had created. Making sure the robot fit all the requirements, which i successfully completed. I used four subprograms to minimize the use of code in the program, causing efficiency. Also creating many conditions for the robot to follow so that I wouldn't have to create an extensive amount of move commands. Through trial and error I was able to complete this program ensuring that the scribbler would complete the maze everytime. All in all I feel great about the code that I have created as the robot has completed its task.