Sprint-9

Backlog	Estimation in hours (per person)	Total working hours	Status
Checking Program Working With Robot In VREP	10	50	Done
Writing The Program In java With Hardware included. Eg> Sensors,Motors	30	150	Done
Overview Of Documentation	10	50	Done

After successful testing of Pioneer_p3dx to move forward and backward, in this Sprint we started working on testing the Ultrasonic sensors of Pioneer_p3dx.

- There are 16 Ultrasonic sensors in Pioneer_p3dx where we initialise the sensor number 4, which is in the front of Pioneer_p3dx.
- In order to test the Ultrasonic Sensor we have to add walls in VREP, which is similar to that of adding a primitive cuboid earlier in the scene.
- After adding the obstacle cuboid, we should make sure that cuboid is detectable and colloidable by double clicking on the cuboid and click on common properties.
- We test the Ultrasonic Sensor using different scenes in V-REP and calculate the distance between the Pioneer_p3dxand the obstacle.

Now we started working on movements of Pioneer_p3dx motors using the information retrieved from Ultra Sonic sensor number 4.

- Firstly we initialized the left and right motors of Pioneer_p3dx robot and also the Ultrasonic sensor 4.
- Depending on the retrieved information of Detected state and Distance from the obstacle we let our Pioneer_p3dx to move left or right accordingly.

Listing the background work to be done on VREP and Eclipse by an initial user in ReadMe files of GITHUB.

ISSUES FACED:

- Listing the detected point from the Ultra Sonic Sensor in an Array.
- Changing the inbuilt properties of an obstacle to Detectable and colloidable.