

# **PROGRESS REPORT 8**

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Subsystem: Coding

Date of Submission: 31/01/2021

Reporting Progress from: 25/01/2021 => 31/01/2021

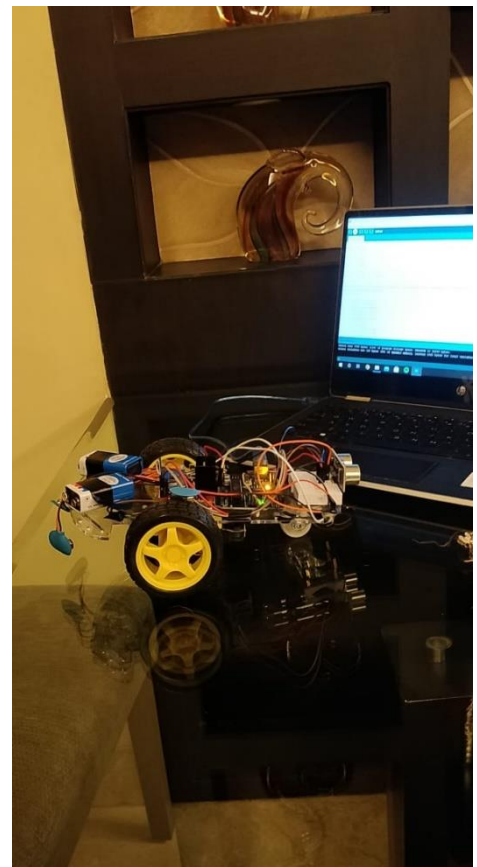
## **Progress**

### **PROGRAMMING**

- 1) Read up on the basics of Python.
- 2) Becoming more comfortable with C & C++.
- 3) Solved various types of coding problems in HackerRank, namely- Mathematics, 30 Days of Code etc.

### **MEETINGS & RESEARCH**

- 1) Discussed the previous tasks assigned (2 motors & Align and Move).
- 2) Wrote a Code for the motion of a bot inside a maze.
- 3) The bot can move in all 4 directions and is equipped with 4 Ultrasonic Sensors through which we know where to move the bot.
- 4) The bot has to work on the principle that it will not travel back the direction it came from, and thus a "Memory()" function is to be made.
- 5) Uploaded the above task in the form of a text file.
- 6) Made my own obstacle avoiding bot with L298n Motor Driver and Ultrasonic Sensor.
- 7) Tested my bot in various conditions and made it work correctly.



A picture of my obstacle avoiding car.