

THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
ISDN 2602

Final Project

Demo Details

Ver. 1.1

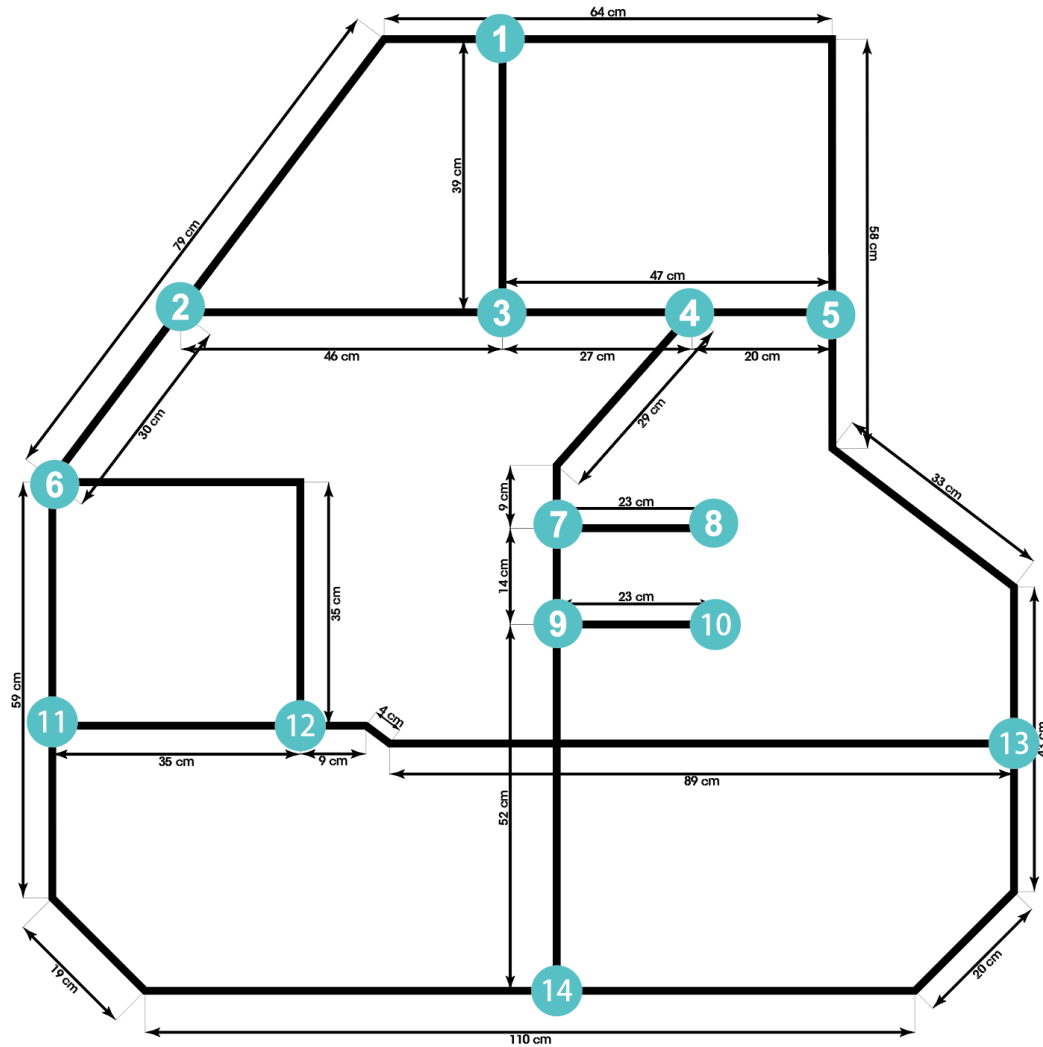
6th May 2024

For your final project, you have to complete four tasks. Here are the steps for each task:

1. Turn on your car and wait for Wi-Fi connection.
2. Verify the correct task and start/end points from Firebase.
3. Place your car on the starting point.
4. Click on "Start" on the Firebase panel, and your car should start moving as soon as the value changes to "Started."
5. Complete the course while listening to Firebase for traffic light information for Tasks 2, 3, and 4.
6. We will stop the timer when your car reaches the destination.

Please note that the traffic lights are bi-directional, and crossing over the detection zone (the IR Sensor detection zone) when the red light is on will result in a 20-second penalty for the total time. Therefore, it is essential to follow the traffic pattern to avoid any penalties.

Starting Point and Ending Point for each Task



| Task | Start Point | End Point |
|------|-------------|-----------|
| 1/2 | 11 | 5 |
| 3 | 11,12,13,14 | 1 |
| 4 | 10,8 | 1 |
| | 12 | 5 |
| | 13 | 6 |
| | 11 | 13 |