Steps to run the Code

1. Connect both Micro USB on the Intel Edison board with the Computer.
2. Connect the Power adapter to the Board. Board will start booting.
3. From the putty Terminal log into the board.
4. Now Copy the code folder i.e. TouchlessAccessCode in your machine (not on Intel Edison).
5. It contains two sub folder:
6. Linux – which has to go to the Intel Edison, path: /home.
7. Arduino – Which needs to be cross-compiled on the Arduino.
   1. For this, open the code (path: Touchless Access Code\Arduino\readdataarduino) in Arduino IDE (Double clicking the readdataarduino file will automatically open it in Arduino IDE).
   2. Go to Tools->Board->Choose Intel Edison board.
   3. Go to Tools->Port->Choose the Port Number of the Intel Edison board.
   4. Hit the Arrow button (below edit option) to allow the code to transfer in the Intel Edison.
   5. Connect Arduino Shield provided in the Grove started Kit with the Intel Edison board.
   6. Connect the LCD with the Shield via connecting cable.
   7. Arduino Connections are done.
8. Now, copy the whole Folder in the Intel Edison /home directory.
9. Go inside the /home/TouchlessAccessCode/Linux.
10. To run the code enter the command : python ble\_oct10ver0.4.py
11. It will ask you in the beginning of the code whether you want to continue with the default values.
12. Clicking ’y’ will directly run the code
13. Clicking ‘n’ will take you to the Configuration menu.
14. Here you can change the distance you want to set as the threshold value to open the gate (Note that the value is in the Meters. So enter the value accordingly. Enter the Integer digit.)
15. Code will run and the scanning will be done on per second basis.
16. If you want to add different BLE device please read 2nd question in FAQ.

FAQ

1. How many device it can support?

Ans. For the Prototype, we are implementing the support of just one device right now.

1. How to add your BLE Device for the demo?

Ans. Open the subscriber.txt file and delete the data from it. Add the Mac Id of your BLE device in the file. Restart the program.

1. How much distance it support and how to re-fix it?

Ans. Right now the distance is 3 m (Approx). We will provide the user the facility to change the distance. It is fix in this Demo.

1. Arduino code is not running when the board gets restart?

Ans. In this case, the code should automatically but if you are facing this problem run the following commands on the terminal.

: cd /sketch

: /sketch/sketch.elf /dev/pts/0&

This will run your Arduino sketch on the board. Now you can go back in the /home/ TouchlessAccessCode/Linux directory to run the program.

1. Python script is not running from outside the code folder?

Ans. Right now the access to run the code from outside the directory is not granted.