**Connections for connecting LCD to arduino are listed as below:-**

LCD pin -> Arduino

1 -> Gnd

2 -> 5V

3 -> Potentiometer (center pin)

4 -> 13

5 -> Gnd

6 -> 12

7 -> Not connected

8 -> Not connected

9 -> Not connected

10 -> Not connected

11 -> 11

12 -> 10

13 -> 9

14 -> 8

15 -> 5V

16 -> Gnd

Connections for connecting IR sensor(Inside Count) to arduino are listed as below:-

IR sensor pin -> Arduino

Vcc -> 5V

Gnd -> Gnd

Out -> 5

Connections for connecting IR sensor(Outside Count) to arduino are listed as below:-

IR sensor pin -> Arduino

Vcc -> 5V

Gnd -> Gnd

Out -> 7

Connections for connecting HC-05 to arduino are listed as below:-

HC-05 pin -> Arduino

Vcc -> 5V

Gnd -> Gnd

TX -> RX

RX -> TX

(Rest pins are not connected)

Connections for push switch (used for sending the final counter to app) to arduino are listed as below:-

Switch pin -> Arduino

1 -> 5V

2 -> 2

Connections for push switch (used to reset the final counter) to arduino are listed as below:-

Switch pin -> Arduino

1 -> 5V

2 -> 4

Connections for buzzer to arduino are listed as below:-

Buzzer pin -> Arduino

1 -> 5V

2 -> 3

**Steps to run the system:**

1. Make the necessary connections mentioned above
2. Upload the code to Arduino UNO board
3. Connect the bluetooth sensor HC-05 to the IoT barcode attendance apk: <https://drive.google.com/file/d/0BwvmxWwFY3mfT09JbkhVOGlBZHg3a2M5RjhXUUtvRW5EUWNV/view?usp=sharing>
4. Scan the barcode from the app at the time of entrance
5. To check the scanned barcode and the total count use the Student Attendance apk: <https://drive.google.com/file/d/0BwvmxWwFY3mfZHZEMmJCTHZiN0NqWFMzX2puM3NJd1VRM2VN/view?usp=sharing>