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Experiment 3.2

Class:-26B

Group No:-05

Group Members Details

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Task:

Develop an IoT based intruder detection and alert system.

Requirements:

Following are the requirements needed for the experiment:

1. PC with Arduino
2. Connecting Wires
3. Breadboard
4. DOIT ESP32 DEVKIT V1
5. 10uF Electrolytic Capacitor
6. Wire Clipper
7. USB Type A to Micro USB Cable
8. DC 5V Power Supply
9. DC 3.3V Power Supply

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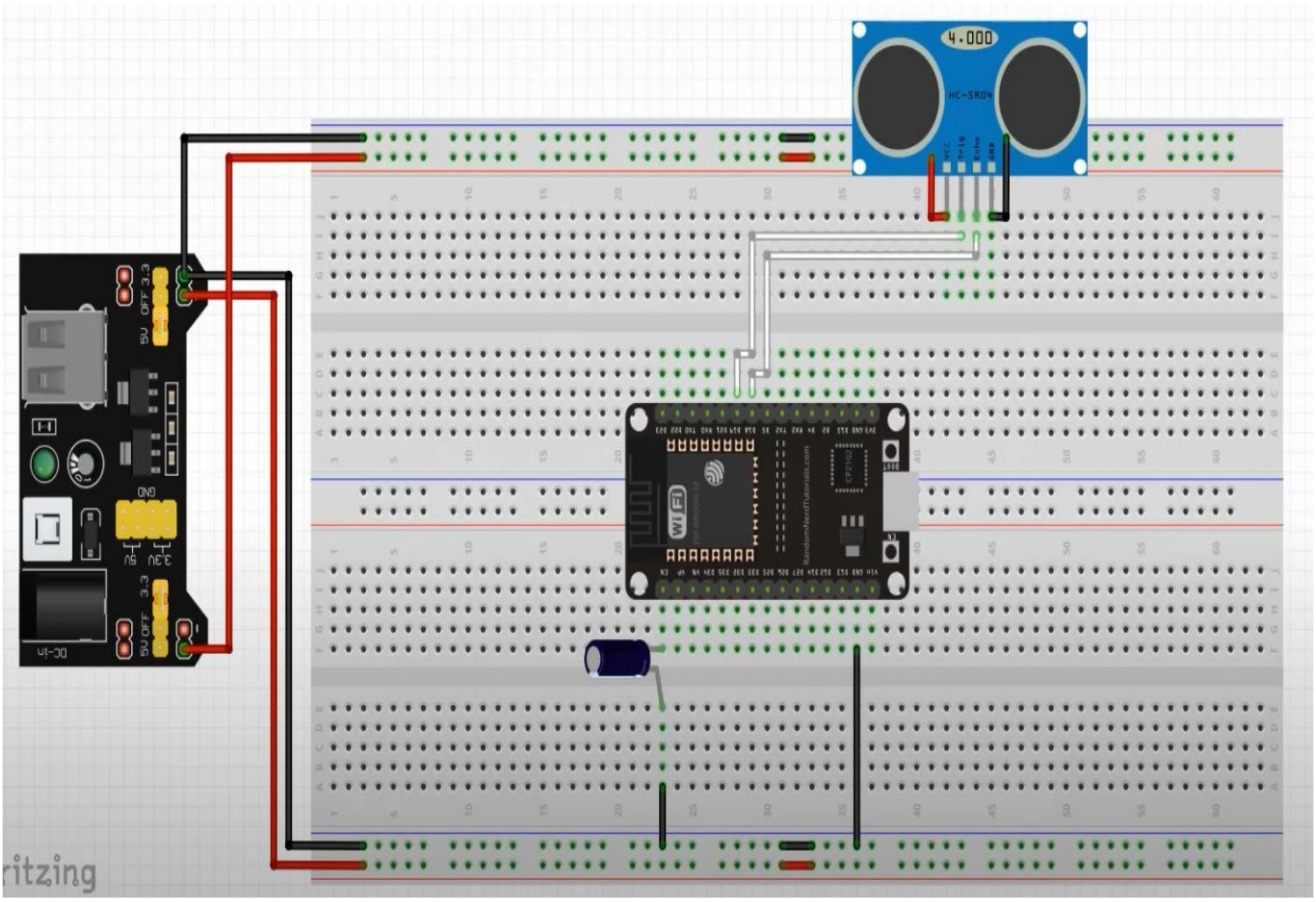
Circuit Diagram



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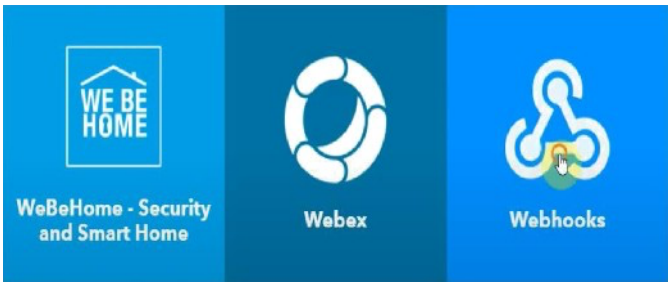

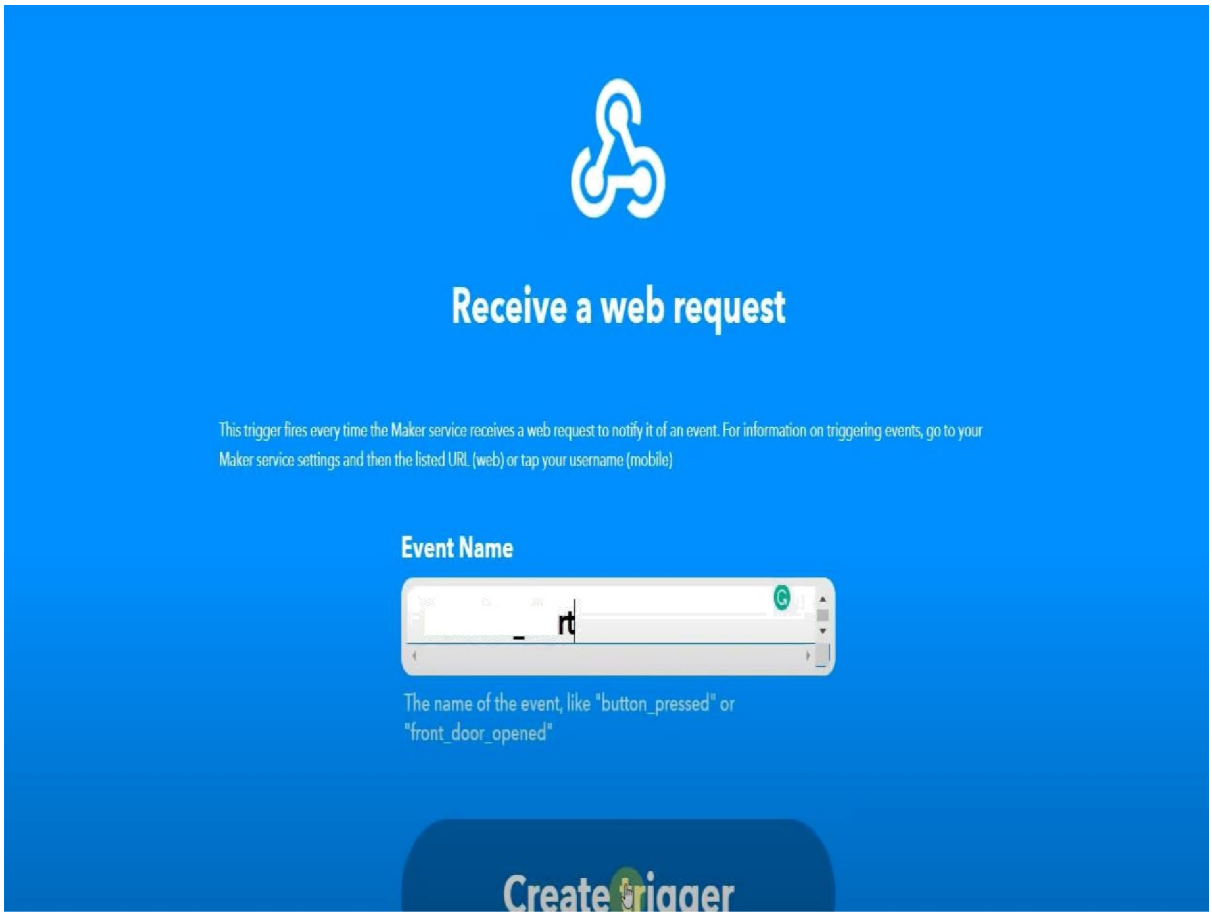

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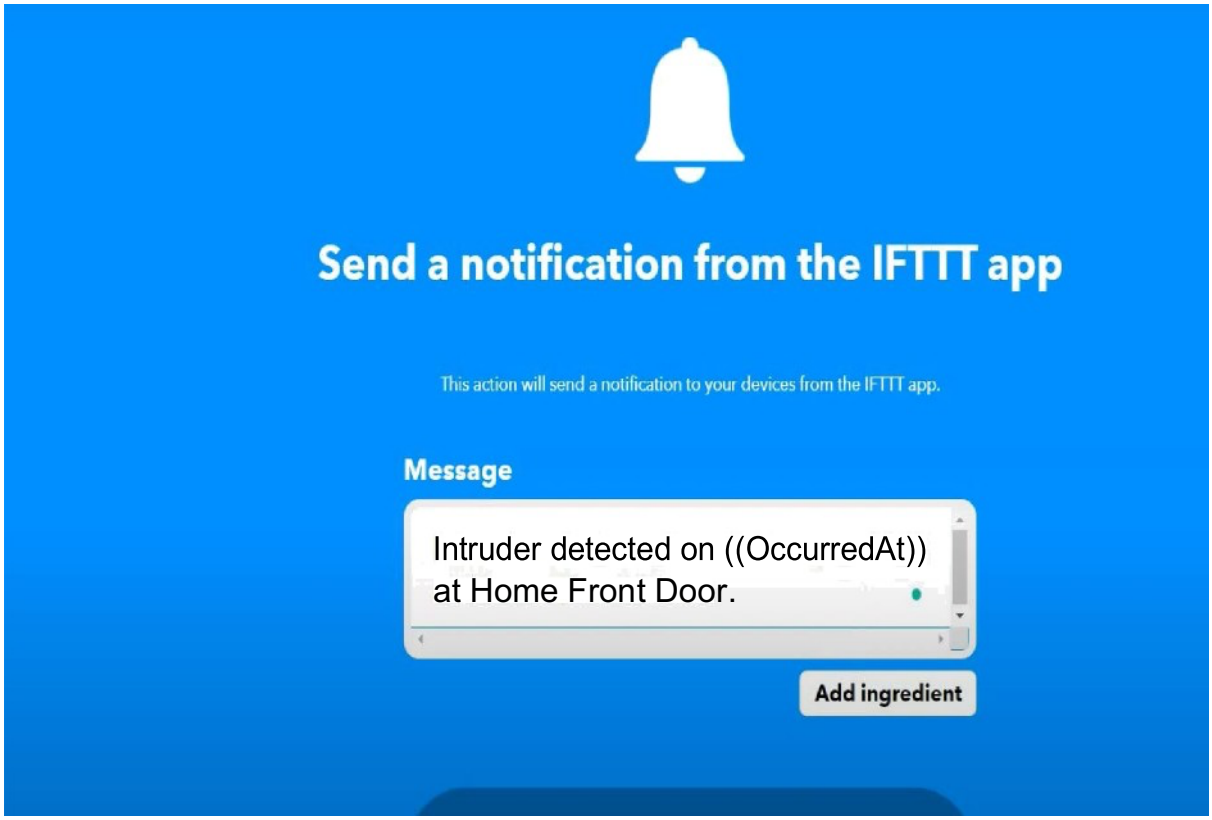

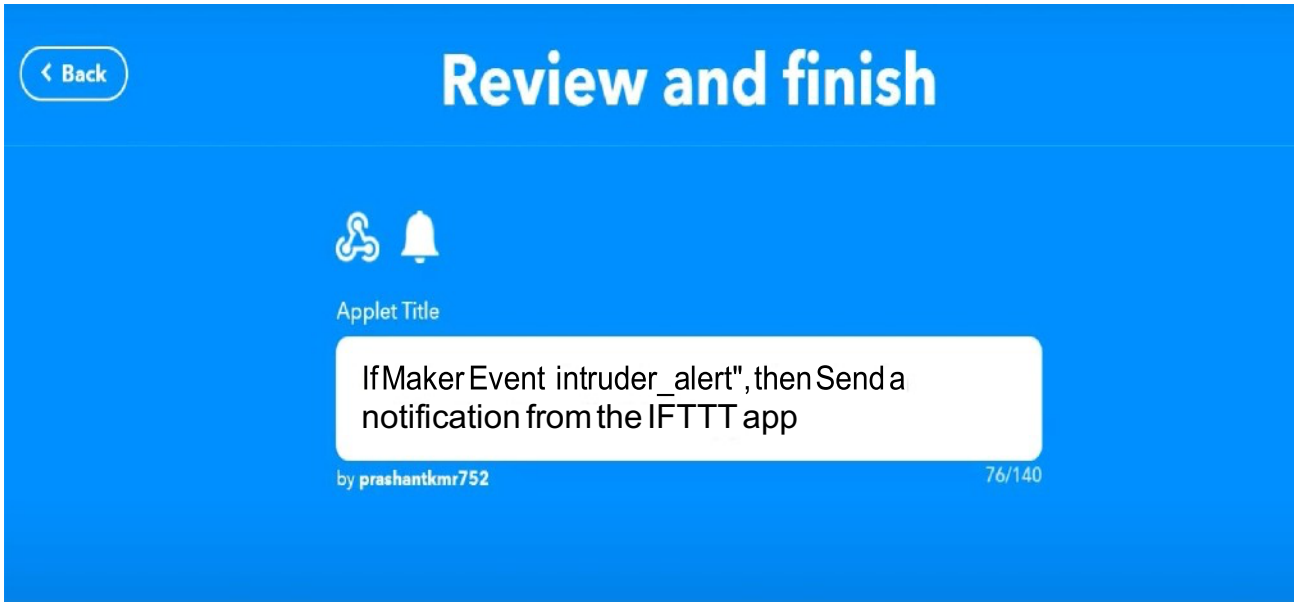

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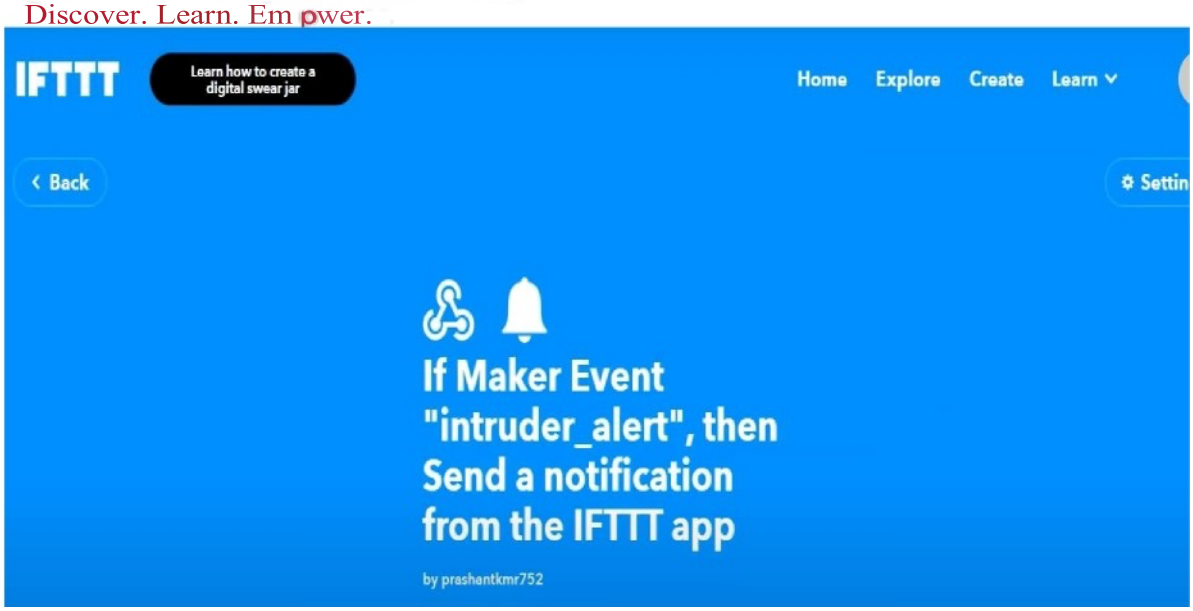

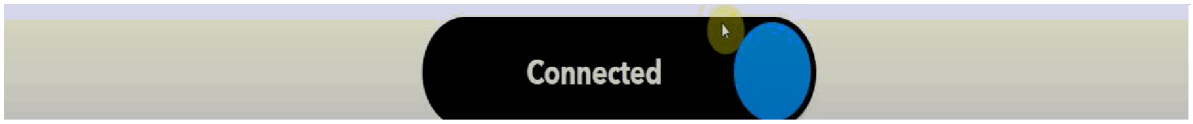

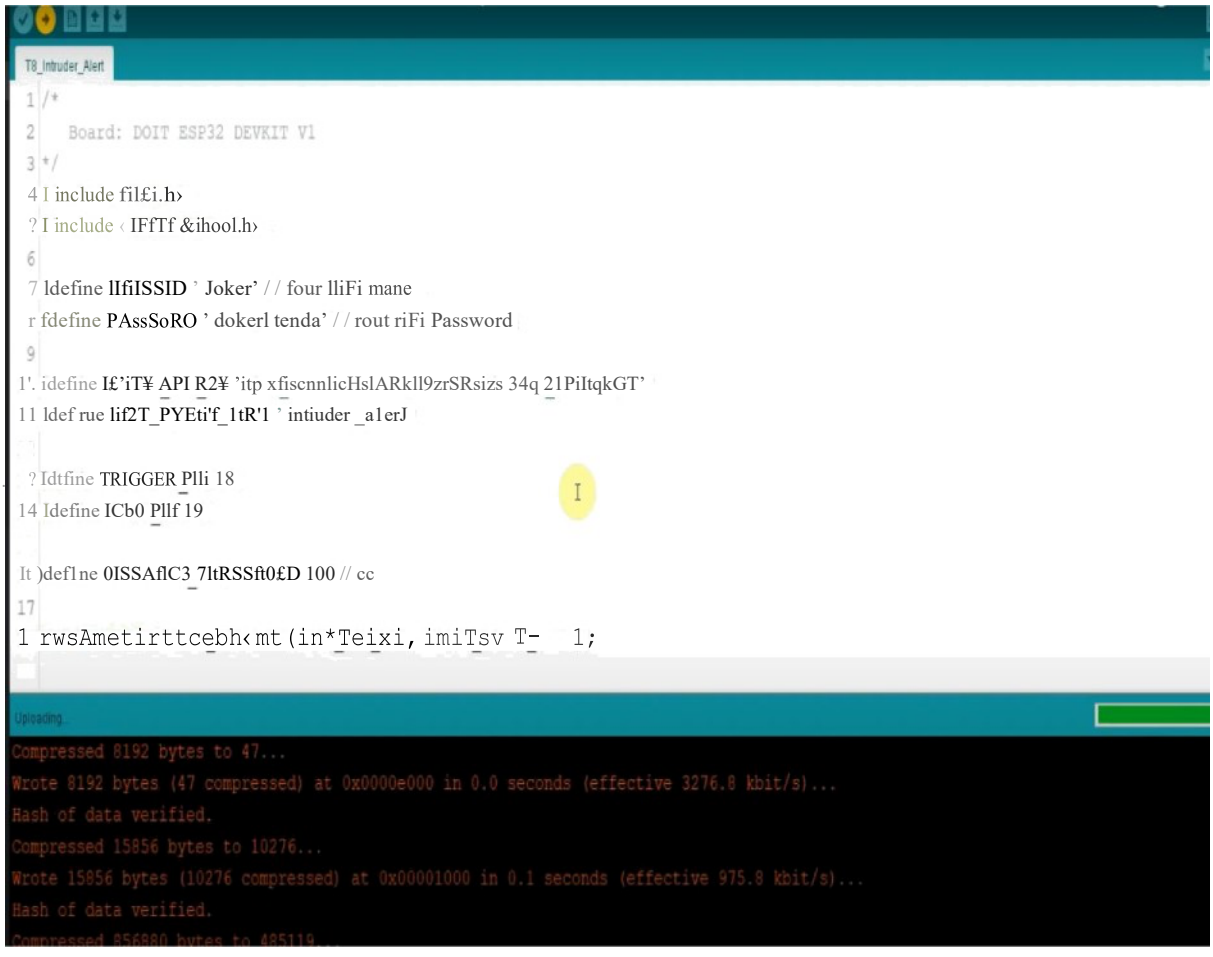

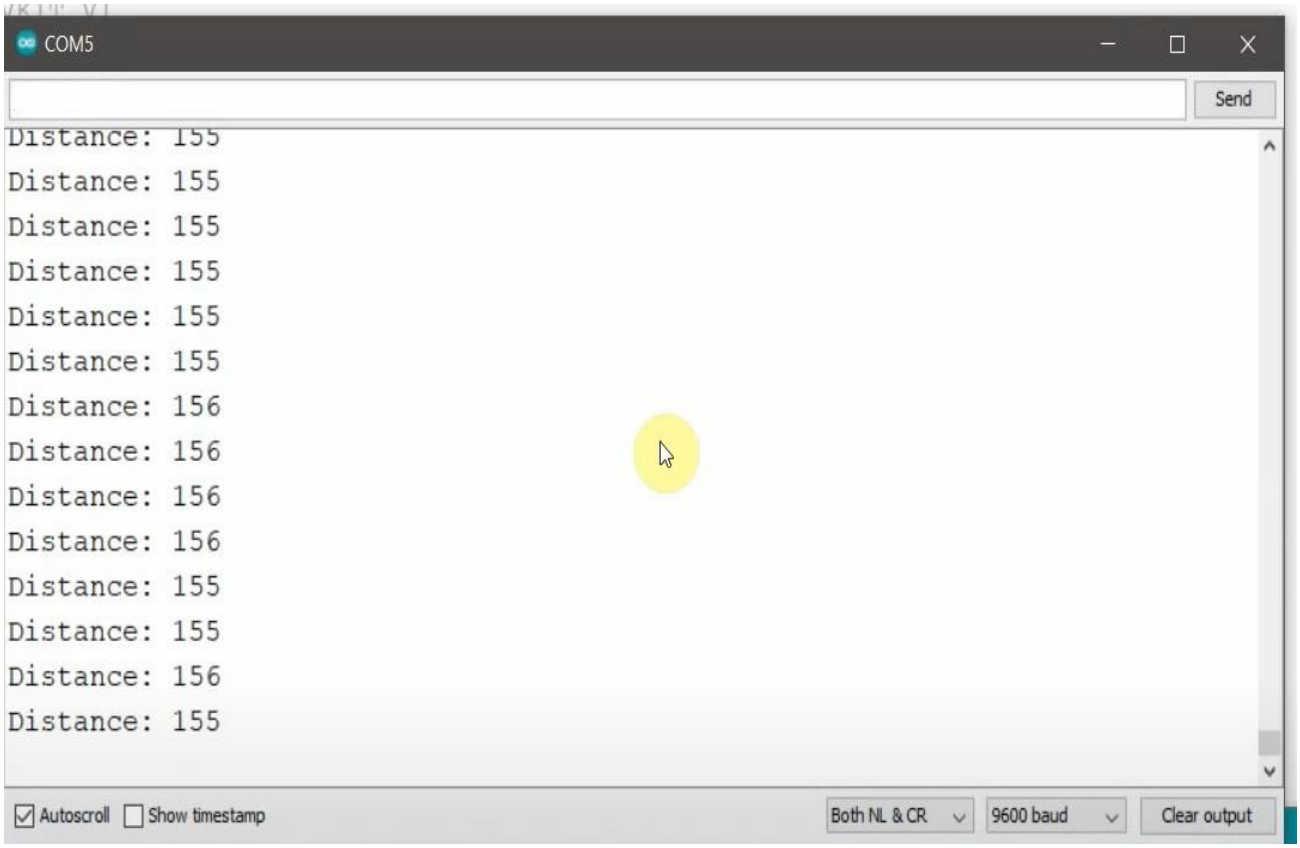

Outcome:

- Establish an interface between embedded IoT system and the physical world through sensors, to read the state of the world, and actuators, to change the state of the world.
- Establish connectivity of IoT modules with cloud for sensor data collection and management
- Creating new applets on IFTTT(If This Then That).
- Learning functions and usage of IFTTT.