**WORKSHEET 3.2**

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**CLASS - CSE10 B**

**UID - 20BCS7409**

**SEMESTER -2**

**SUBJECT - IOT LAB 3.2 PRACTICAL**

**Task:**

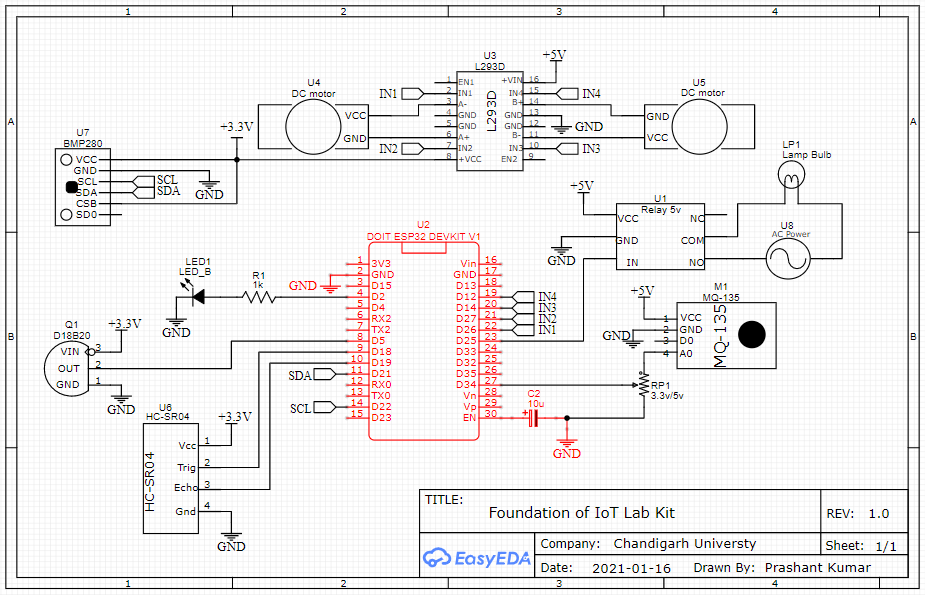
**Develop an IoT based intruder detection and alert system.**

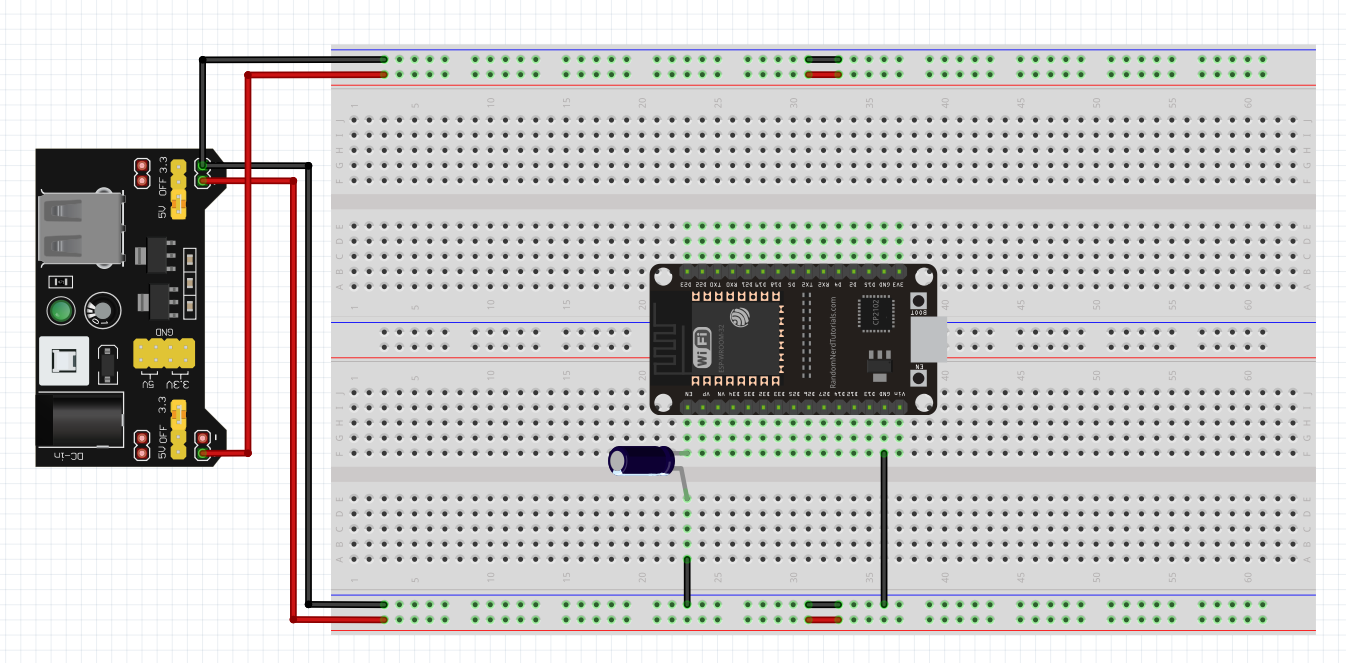
**Requirements:**

* PC with Arduino
* Connecting Wires
* Breadboard
* DOIT ESP32 DEVKIT V1
* 10uF Electrolytic Capacitor
* Wire Clipper
* USB Type A to Micro USB Cable
* DC 5V Power Supply
* DC 3.3V Power Supply

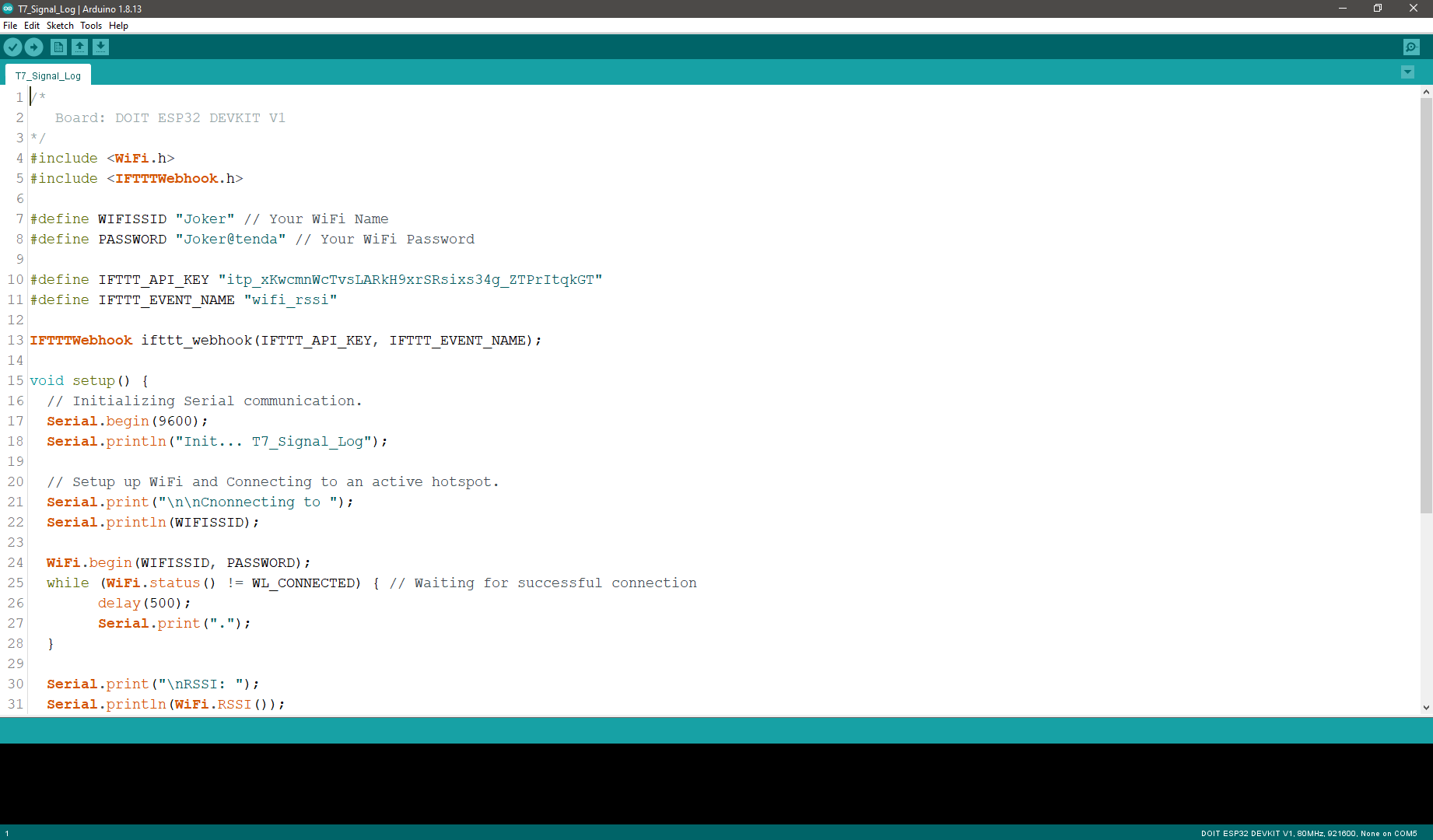
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**Circuit Diagram:**



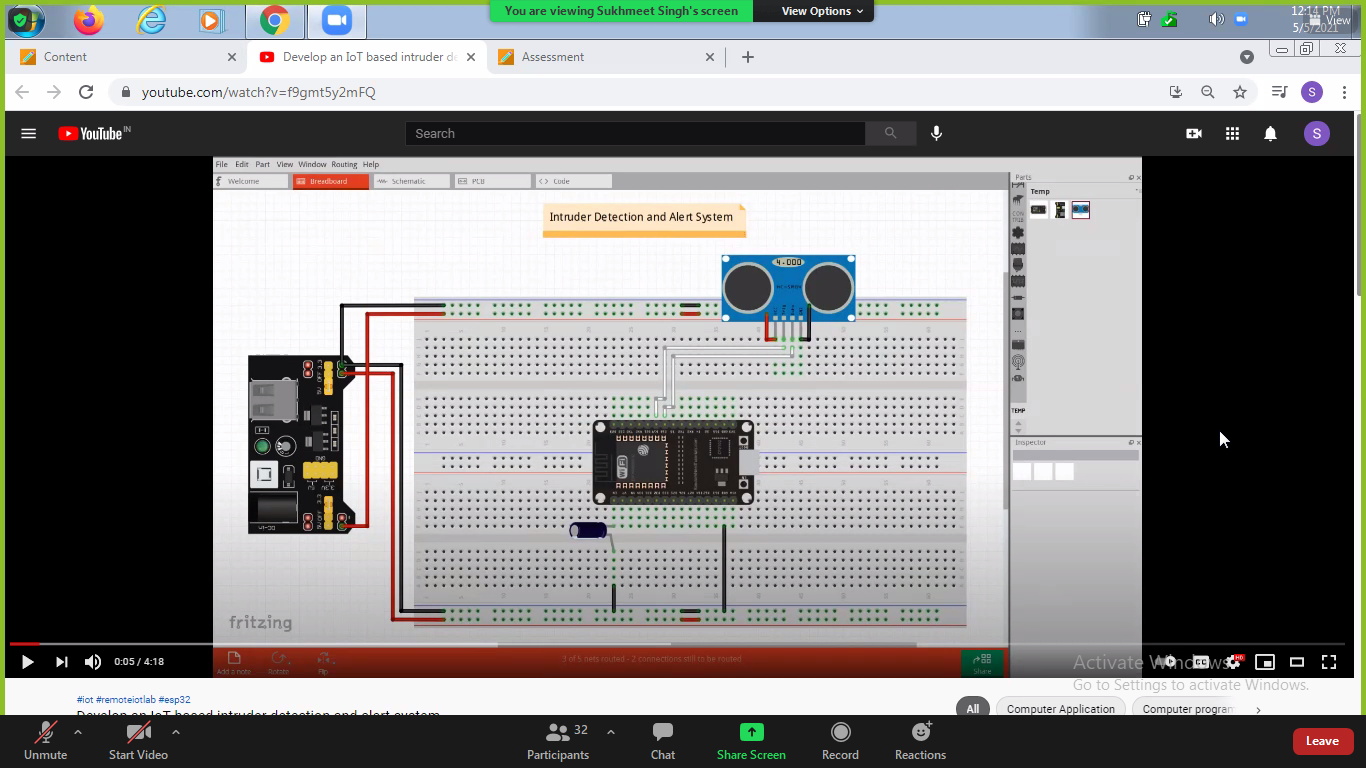


**Code (if any):**

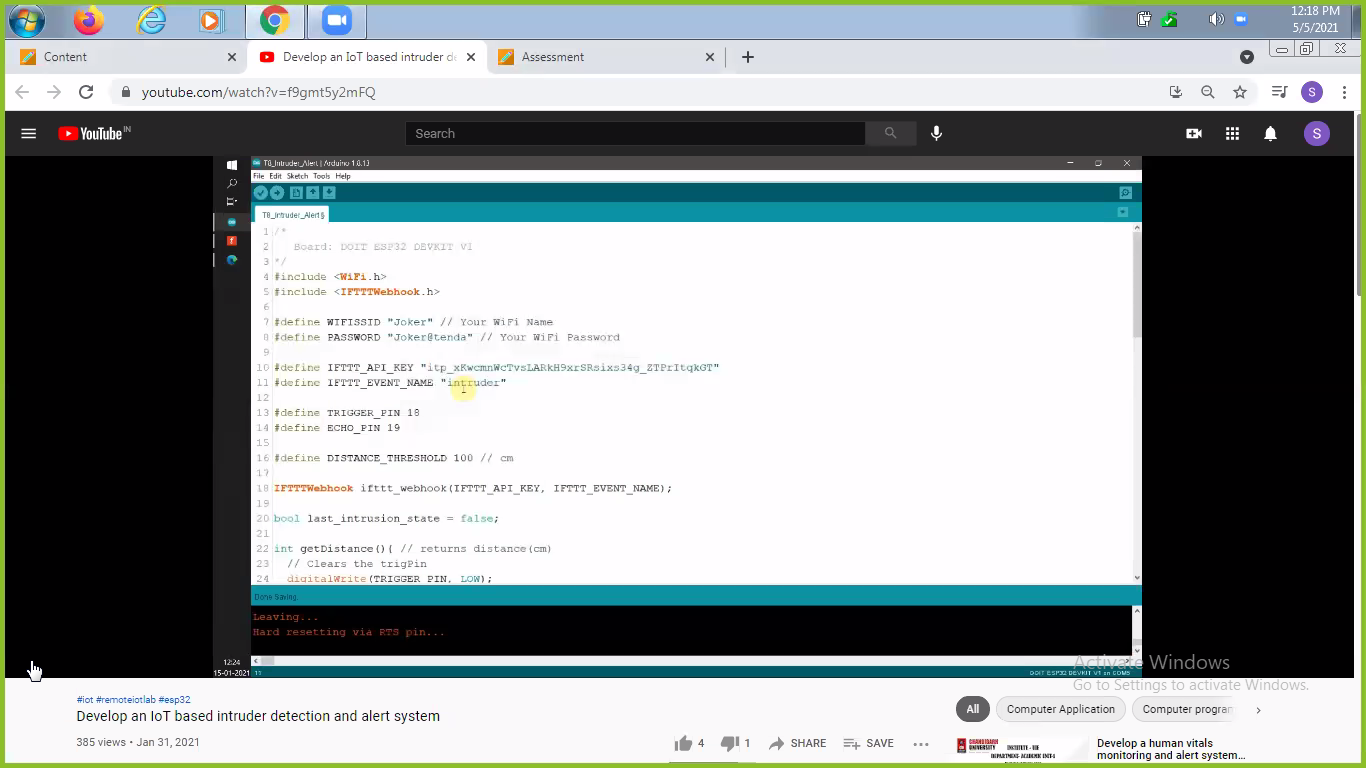
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**Dashboard Snippet (if any):**

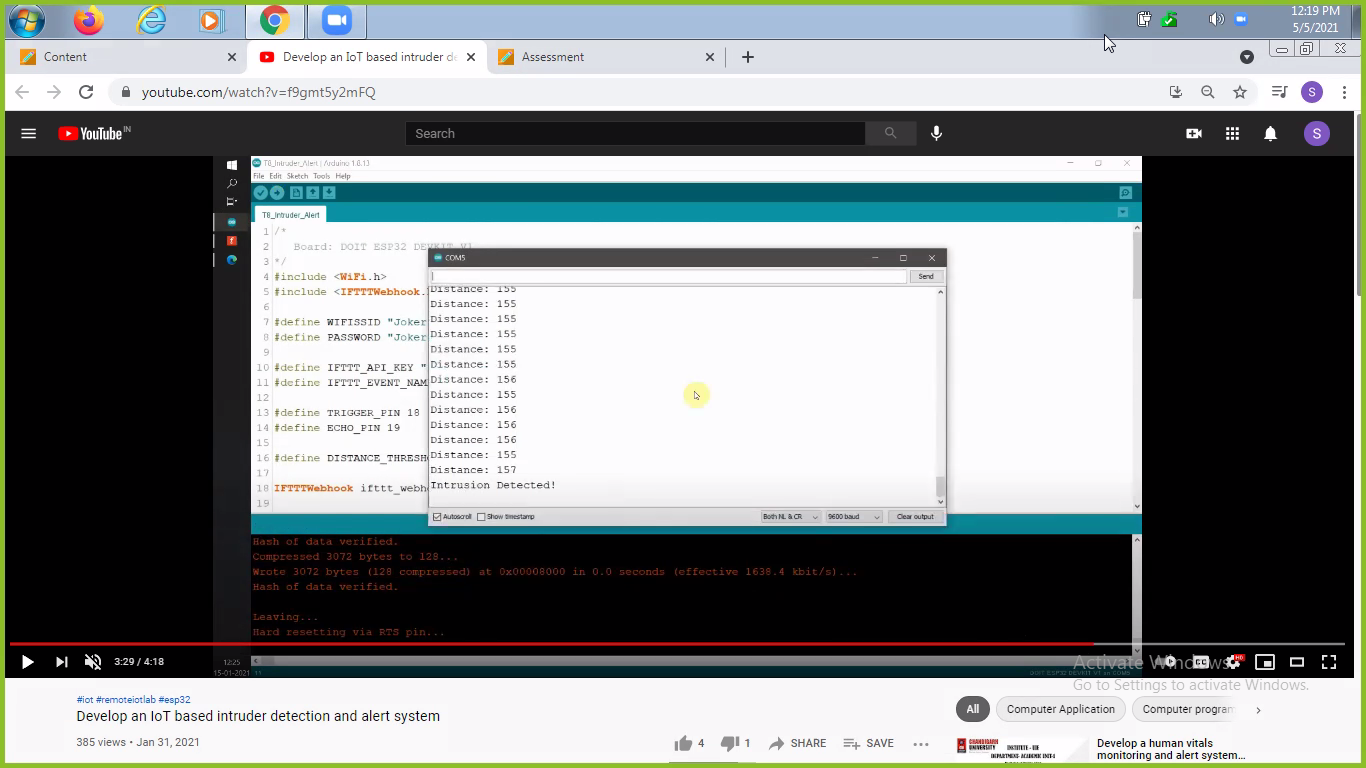
**Screenshot 1:**

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**Screenshot 2:**

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**Screenshot 3:**

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**Outcome:**

On completion of the experiment, the students will be able to:

* 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.