IBM Report (Nalaiya Thiran)

IOT based Smart Farming

SUBMITTED BY

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ASSIGNMENT 1:

Build a smart home in tinkercad, Use at least 2 sensors, led, buzzer in a circuit. Simulate in a single code.

CODE:

```cpp
// C++ code
//
int IR = 0;

int IR2 = 0;

void setup()
{
  pinMode(2, INPUT);
  pinMode(4, INPUT);
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop()
{
  IR = digitalRead(2);
  IR2 = digitalRead(4);
  Serial.println(IR);
  Serial.println(IR2);
  delay(10); // Wait for 10 millisecond(s)
  if (IR2 <= IR && IR2 >= IR) {
    digitalWrite(13, LOW);
    digitalWrite(LED_BUILTIN, LOW);
  } else {
    digitalWrite(13, HIGH);
    digitalWrite(LED_BUILTIN, HIGH);
  }
}
```
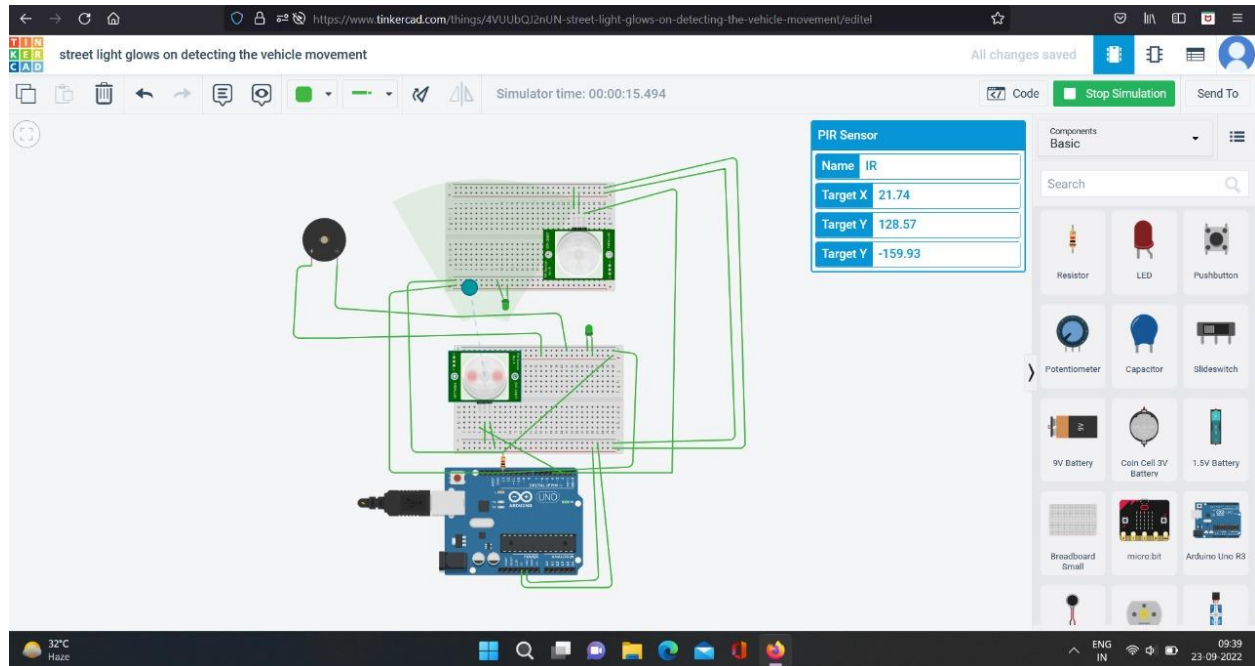
CIRCUIT DIAGRAM:
LIGHTS ON , BUZZER ON:

LIGHTS OFF , BUZZER OFF: