

IBM Report (Nalaiya Thiran)

IOT based Smart Farming

SUBMITTED BY

VARUN PRASAD K

(113219041128)

ASSIGNMENT 1:

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

CODE:

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

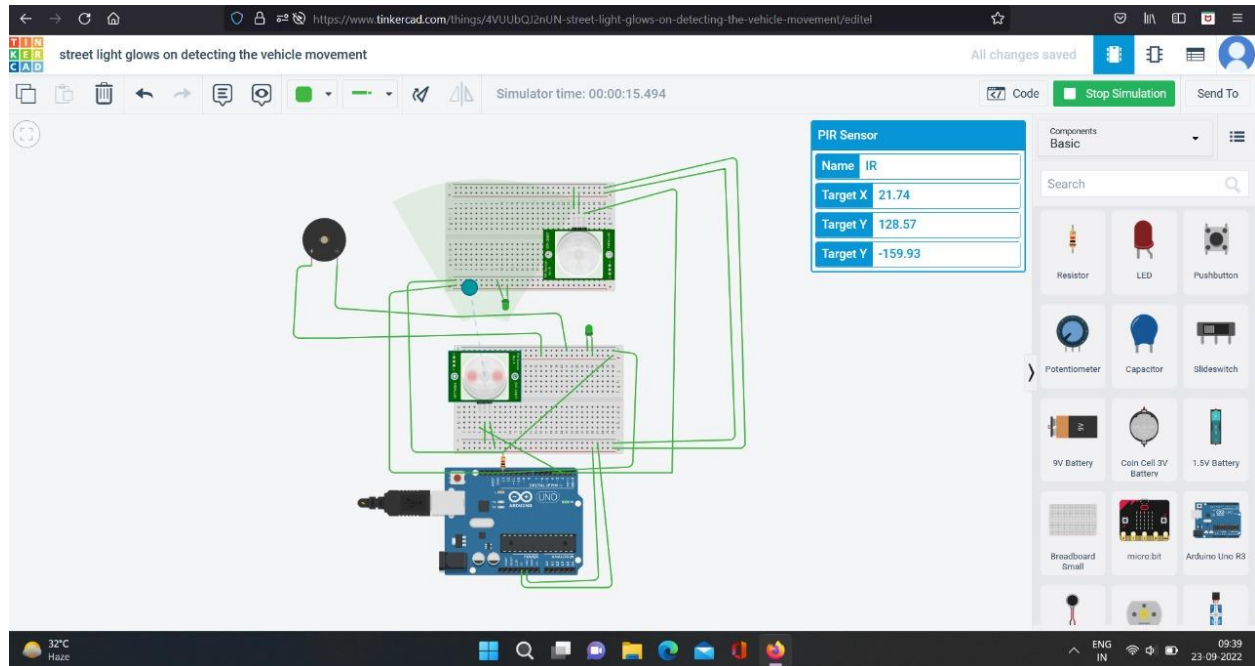
int IR2 = 0;

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:

