

ASSIGNMENT TASK – 1

PROJECT TITLE:

Smartfarmer - Iot Enabled Smart Farming

Application

TEAM DETAILS:

Ravikiran R (Team Leader)

Nabushan B

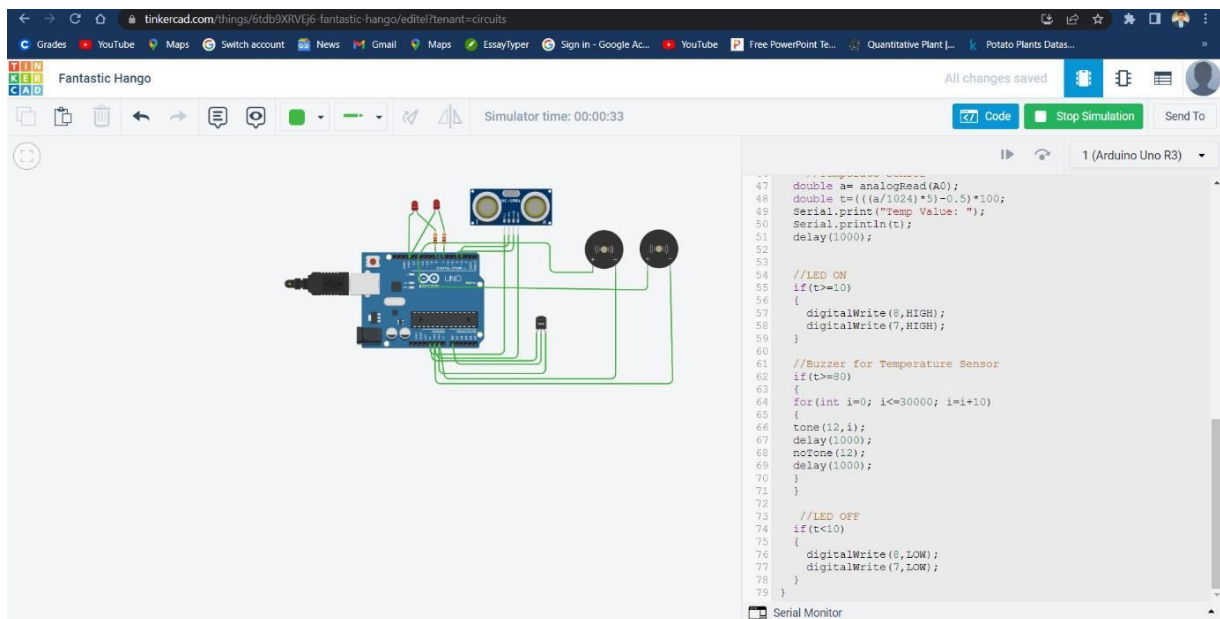
Pranesh RR

Navaneethakris

hnan

ASSIGNMENT TASK DETAIL:

TASK: MAKE A SMART HOME IN TINKER CAD



DESCRIPTION:

Here we designed a circuit using Ultrasonic and Temperature Sensor. To get alert when the sensors reached the threshold by indicating in led and buzzer.

ARDUINO CODE:

```
#define trigPin 2

#define echoPin 3

long duration;

int distance;

const int redPin = 9;

void setup(){

  pinMode(trigPin, OUTPUT);

  pinMode(echoPin, INPUT);

  Serial.begin(9600);

}

void loop(){

  digitalWrite(trigPin, LOW);

  delayMicroseconds(2);

  digitalWrite(trigPin, HIGH);

  delayMicroseconds(10);

  digitalWrite(trigPin, LOW);

  duration = pulseIn(echoPin, HIGH);

  distance = duration * 0.034 / 2;

  delay(2000);

  Serial.print("Distance: ");

  Serial.print(distance);

  Serial.println(" cm");

  if(distance <= 10){

    analogWrite(redPin,255);

    Serial.println("ON");

  }

  else{

    analogWrite(redPin,64);

    Serial.println("partially ON");

  }

}
```