

SIT315-Concurrent and Distributed Programming

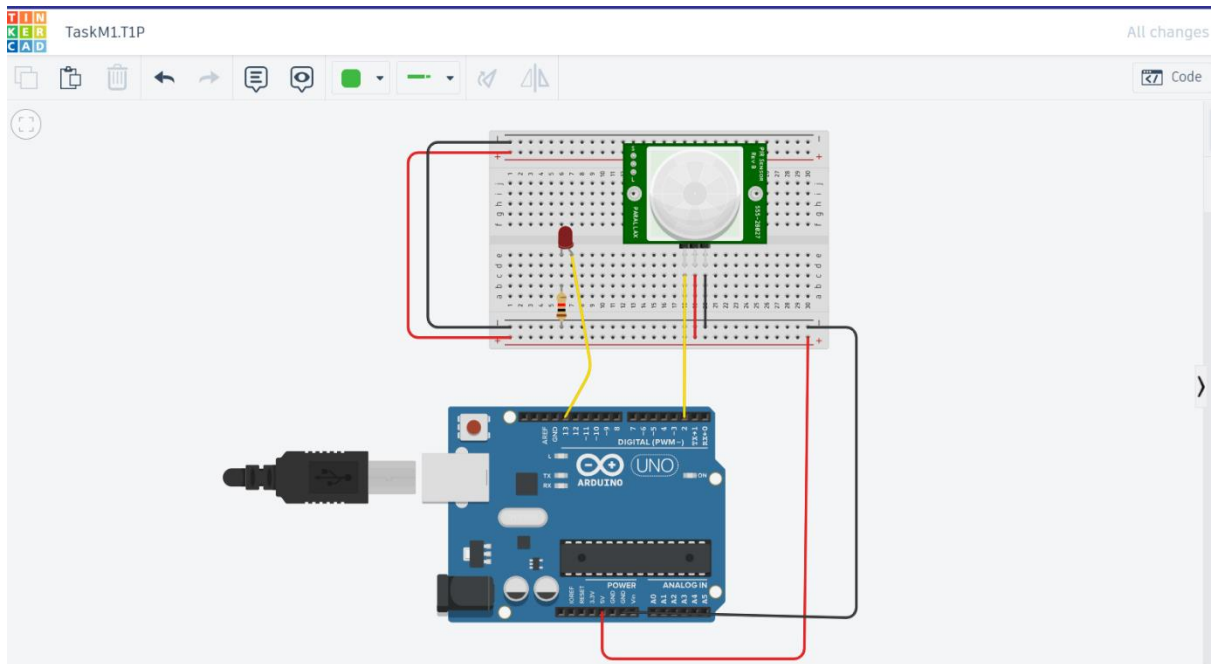
TaskM1.T1P: Build a simple Sense-Think-Act Board

Name: Randi Tamasha Gunasekara Henadeerage Dona

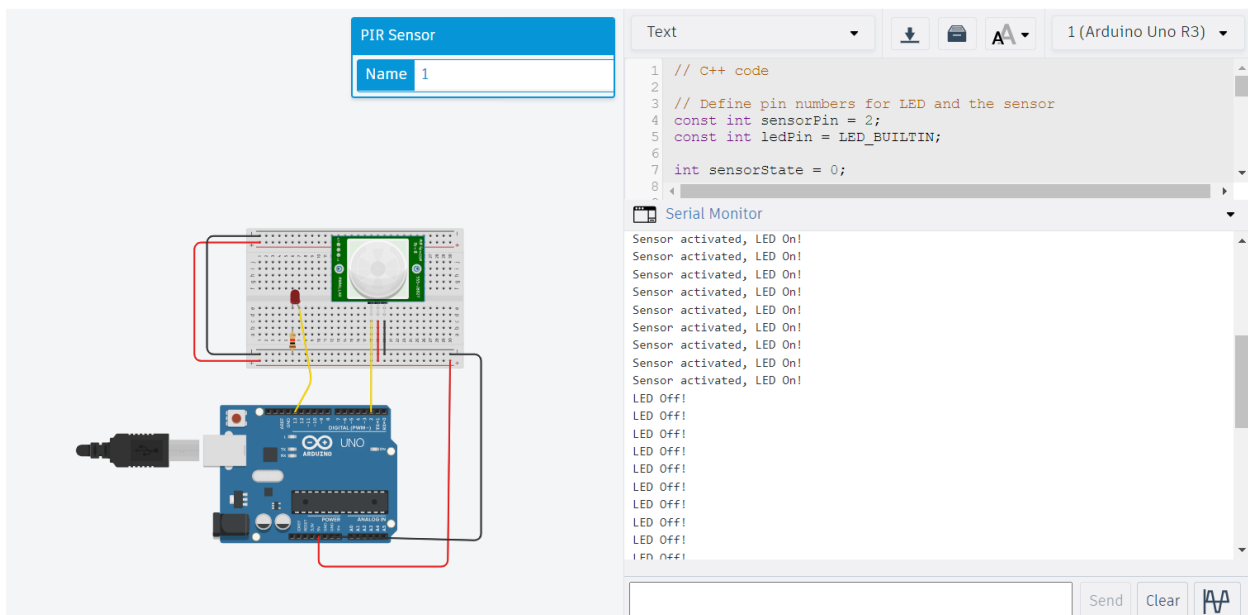
Student Number: 222470203

Email: s222470203@deakin.edu.au

Diagram -Board on tinkercad.



A screenshot of your system monitoring log



Source code of the program

```
// C++ code

// Define pin numbers for LED and the sensor
const int sensorPin = 2;
const int ledPin = LED_BUILTIN;

int sensorState = 0;

void setup()
{
  //Setting sensor pin as an input
  pinMode(sensorPin, INPUT);
  //Setting LED pin as an output
  pinMode(ledPin, OUTPUT);
  Serial.begin(9600);
}

void loop()
{
  //reading the state of the sensor
  sensorState = digitalRead(sensorPin);

  //checking if the sensor pin is HIGH. if it is, set the LED on.
  if (sensorState == HIGH) {
    digitalWrite(ledPin, HIGH);
    Serial.println("Sensor activated, LED On!");
  } else {
    digitalWrite(ledPin, LOW);
    Serial.println("LED Off!");
  }
  delay(10); // Delay to increase the performance
}
```

GitHub Link

<https://github.com/RandiGunasekara/SIT315.git>

Demonstration video Link

<https://youtu.be/qIXsi0msbuo>