

VSB Engineering College, Karur-639111

Department of Electronics and Communication Engineering

IOT Assignment

TOPIC : Assignment on temperature and humidity sensing and alarm.

DOMAIN NAME: Internet Of Things

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Coding:

```
const int TRIG_PIN = 7;
const int ECHO_PIN = 8;
const unsigned int MAX_DIST = 23200;

void setup() {

    pinMode(TRIG_PIN, OUTPUT);
    digitalWrite(TRIG_PIN, LOW);

    pinMode(ECHO_PIN, INPUT);

    Serial.begin(9600);
}

void loop() {
    unsigned long t1;
    unsigned long t2;
    unsigned long pulse_width;
```

```

float cm;

float inches;


digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, LOW);


while ( digitalRead(ECHO_PIN) == 0 );


t1 = micros();
while ( digitalRead(ECHO_PIN) == 1);

    t2 = micros();
pulse_width = t2 - t1;


cm = pulse_width / 58.0;
inches = pulse_width / 148.0;


if ( pulse_width > MAX_DIST ) {
    Serial.println("Out of range");
} else { Serial.print(cm);
    Serial.println(" cm ");
}


// Wait at least 60ms before next measurementdelay(60);
}

```