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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```
#define ECHO_PIN 2
#define TRIG PIN 3
void setup() {
Serial.begin(115200);
 pinMode(LED_BUILTIN, OUTPUT);
 pinMode(TRIG_PIN, OUTPUT);
 pinMode(ECHO_PIN, INPUT);
}
float readDistanceCM() {
 digitalWrite(TRIG_PIN, LOW);
 delayMicroseconds(2);
 digitalWrite(TRIG_PIN, HIGH);
 delayMicroseconds(10);
 digitalWrite(TRIG_PIN, LOW);
 int duration = pulseIn(ECHO_PIN, HIGH);
 return duration * 0.034 / 2;
}
void loop() {
```

```
float distance = readDistanceCM();

bool isNearby = distance < 100;
digitalWrite(LED_BUILTIN, isNearby);

Serial.print("Measured distance: ");
Serial.println(readDistanceCM());

delay(100);
}</pre>
```



