

Program Code:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "933n2d"
#define deviceType = "koushik47"
#define deviceId = "07"
#define authMethod = "token"
#define authToken = "87654321"

void setup(){
  Serial.begin(9600);
  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();

  if(distance<=100)
  {
    Serial.println("person detected");
  }
  else{
    Serial.print("Measured distance:");
    Serial.println(readDistanceCM());
  }
  delay(1000);
}
```

IBM Cloud:

