Assignment - 4

Date	19 September 2022
Team ID	PNT2022TMID39877
Project Name	Project – Smart Farmer - IoT Enabled Smart Farming Application
Maximum Marks	2 Marks
Student Name	Balaji.R

Code:

```cpp
#define ECHO_PIN 2
#define TRIG_PIN 3
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(100);
}
```

```
Distance: 186.68
Distance: 186.68
Distance: 186.68
Distance: 186.68
Distance: 186.78
Distance: 186.68
```

Wokwi Link: https://wokwi.com/projects/347141910665626194

IBM CLOUD :

Event	Value	Format	Last Received
event_1	{"Persondetected" }	json	a few seconds ago
event_1	{"Persondetected" }	json	a few seconds ago
event_1	{"Persondetected" }	json	a few seconds ago
event_1	{"Persondetected" }	json	a few seconds ago
event_1	{"Persondetected" }	json	a few seconds ago