

## ASSIGNMENT - 4

Date	November 17 2022
Team ID	PNT2022TMID20828
Project Name	Project – Smart Farmer - IoT Enabled Smart Farming Application
Maximum Mark	2 Marks
Student Name	KIRUBAVATHI U

CODE:

```
#define ECHO_PIN 2
```

```
#define TRIG_PIN 3
```

```
#define ORG "9g75cf"
```

```
#define DEVICE_TYPE "assignment"
```

```
#define DEVICE_ID "1234"
```

```
#define TOKEN_ID "12345678"
```

```
void setup() {
```

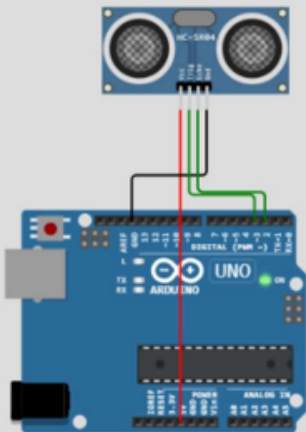
```
    Serial.begin(9600);
```

```
    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("Movement detected ");  
    }  
    else {  
        Serial.print("Distance: ");  
        Serial.println(readDistanceCM());  
    }  
    delay(1000);  
}
```



Distance: 186.68

Distance: 186.68

Distance: 186.68

Distance: 186.68

Distance: 186.78

Distance: 186.68

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