## **Assignment -4**

Assignment Date	19 NOVEMBER 2022
Project Name	Smart Farmer-IOT Enabled smart farming application
Team ID	PNT2022TMID04701

## Code:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define organization = "3gcqg0"
#define deviceType = "Ultrasonicsensor"
#define deviceId = "b11m3edeviceid"
#define authMethod = "use-token-auth"
#define authToken = "v?J8iAARoSx(p gCsL"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("ALERT!!! ALERT!!! Object Detected");
else
Serial.print("Measured distance: ");
Serial.println(readDistanceCM());
delay(1000);
```

## **Output:**

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          void setup()
          terial.tegin(0680);
pinMode(TRIG_PIN, OUTPUT);
pinMode(ECHO_PIN, INPUT);
           float readDistanceCH()
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          digitalwrite(TRIG_PIN, 1CW);
dilpyNicrosconds(2);
digitalwrite(TRIG_PIN, HIGH);
delsyNicrosconds(20);
digitalwrite(TRIG_PIN, 1CW);
int duration = pulseIn(ECHO_PIN, HIGH);
return duration * 0.004 / 2;
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18
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           yold Loop()
                                                                                                 ALERTIII ALERTIII Object Detected
           float distance = readDistanceCM();
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    28 If (distance (* 188)
```