

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 = "b11m3edevicid"
#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:



