ASSIGNMENT-4

PROJECT DOMAIN	INTERNET OF THINGS
PROJECT TITLE	IoT BASED SMART CROP PROTECTION SYSTEM FOR AGRICULTURE
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DATE	27 OCTOBER 2022
MAXIMUM MARKS	2 MARKS

QUESTION-1:

WRITE CODE AND CONNECTIONS IN WOKWI FOR ULTRASONIC. WHENEVER DISTANCE IS LESS THAN 100 CMS SEND "ALERT"TO IBM CLOUD AND DISPLAY IN DEVICE RECENT EVENTS.

```
#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);
```

SOLUTION:







