ASSIGNMENT-4

1. CODE:

```
#define ECHO_PIN 2
#define TRIG_PIN 3
#define LED_BUILTIN 13
#define organization = "57kmpx"
#define deviceType = "abcd"
#define deviceId = "13"
#define authMethod = "token"
#define authToken = "123456789"
void setup(){
 Serial.begin(9600);
  pinMode(TRIG_PIN,OUTPUT);
  pinMode(ECHO_PIN,INPUT);
  pinMode(LED_BUILTIN, OUTPUT);
}
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();
```

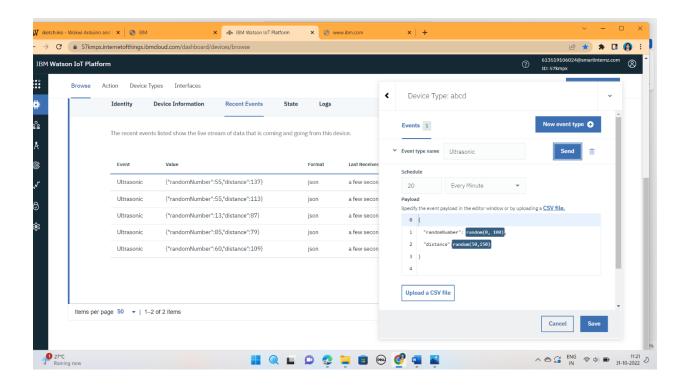
```
{
digitalWrite(LED_BUILTIN, HIGH);
delay(1000);
digitalWrite(LED_BUILTIN, LOW);
delay(1000);
}
if(distance>=100)
{
  Serial.println("person detected");
  Serial.print("Measured distance:");
  Serial.println(readDistanceCM());
  Serial.println("HIGH");
}
else{
  Serial.print("Measured distance:");
  Serial.println(readDistanceCM());
  Serial.println("LOW");
}
delay(1000);
```

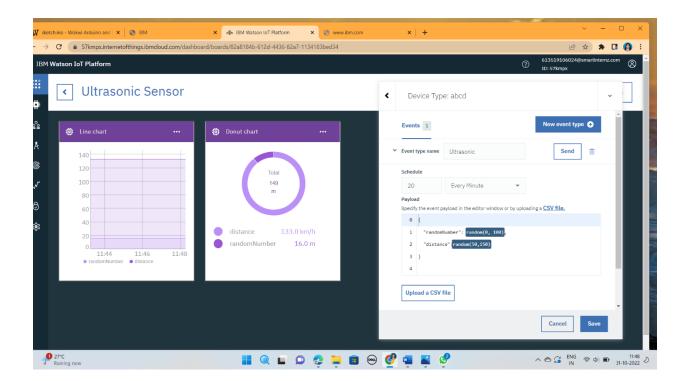
2. LINK:

}

https://wokwi.com/projects/346845514621256275

3. IBM CLOUD:





4. WOKKI:

