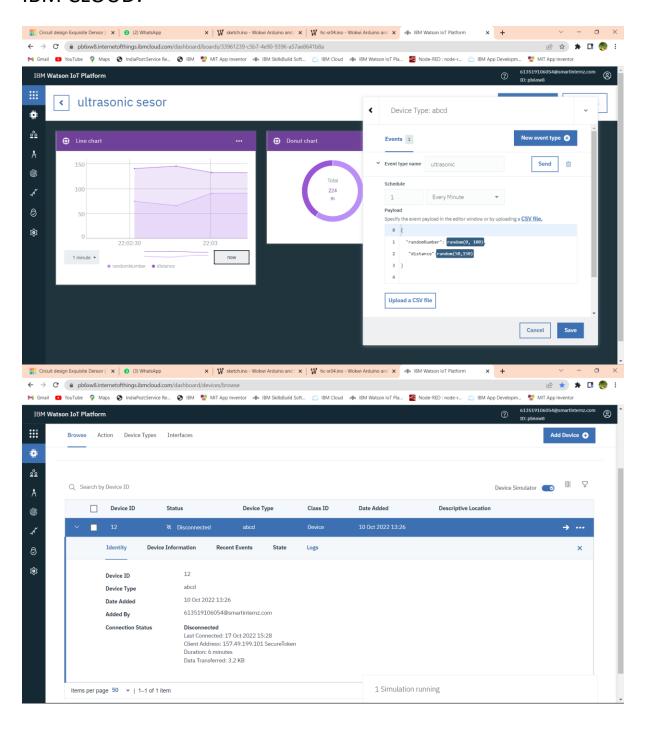
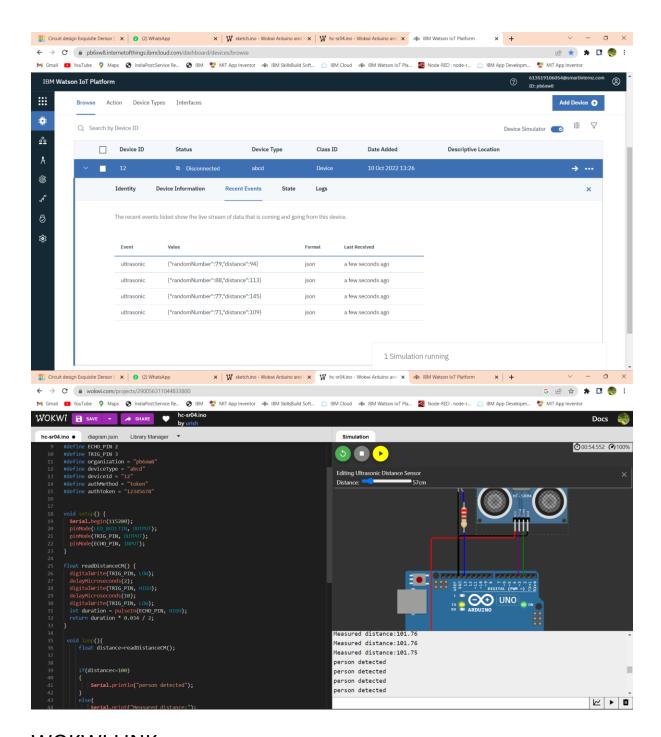
ASSIGNMENT 4

```
CODE:
#define ECHO_PIN2
#define TRIG PIN3
#define organization = "pb6xw8"
#define deviceType = "abcd"
#define deviceId = "12"
#define authMethod = "token"
#define authToken = "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("person detected");
  }
  else{
     Serial.print("Measured distance:");
     Serial.println(readDistanceCM());
  }
  delay(1000);
}
```

IBM CLOUD:





WOKWI LINK:

https://wokwi.com/projects/290056311044833800