Assignment - 4

Date	30 October 2022
Team ID	PNT2022TMID37924
Project Name	loT Based Safety Gadget For Child Safety Monitoring & Notification
Maximum Marks	4 Marks

wokwi link:

https://wokwi.com/projects/348394217234498131

Program code:

```
/*
HC-SR04 Ultrasonic Sensor Example.

Turn the LED on when an object is within 100cm range.

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*/

#define ECHO_PIN 2

#define TRIG_PIN 3

#define organization ="ig6yme"

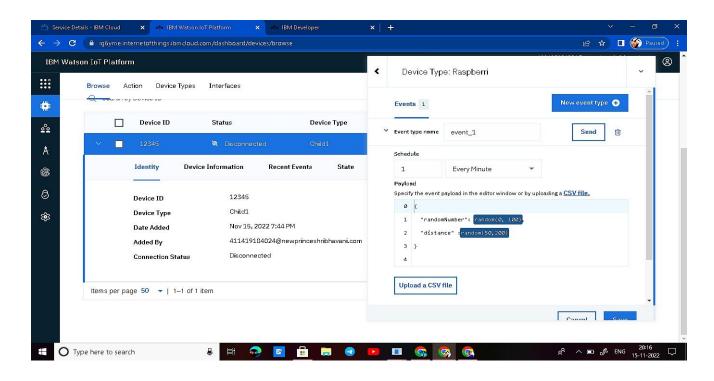
#define device type ="Child1"

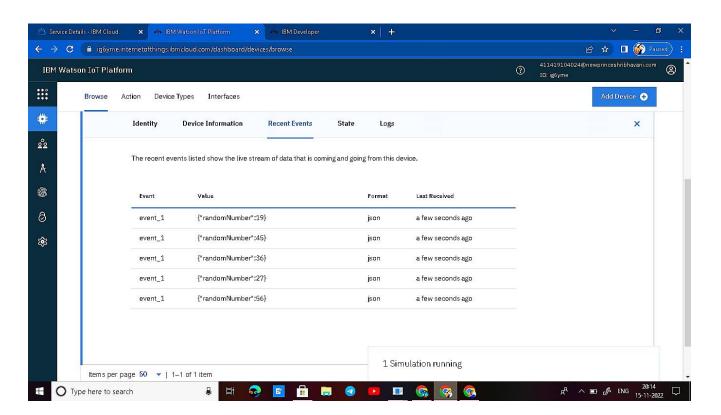
#define deviceId="75"

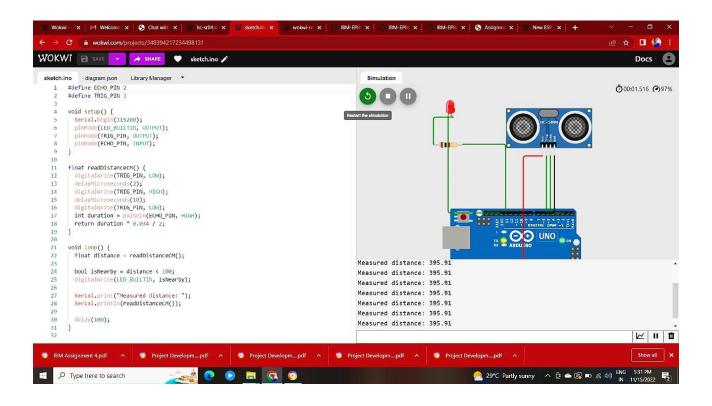
#define authmethod="token"
```

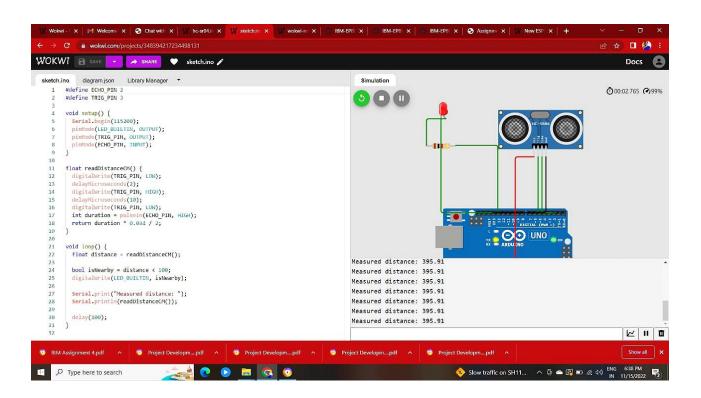
```
#define authToken="12345678"
void setup()
Serial.begin(115200);
pinMode(LED BUILTIN, OUTPUT);
pinMode(TRIG PIN, OUTPUT);
pinMode(ECHO_PIN, INPUT);
float readDistanceCM()
digitalWrite(TRIG PIN, LOW);
delayMicroseconds(2);
digitalWrite(TRIG_PIN, HIGH);
delayMicroseconds(10);
digitalWrite(TRIG_PIN, 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:









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