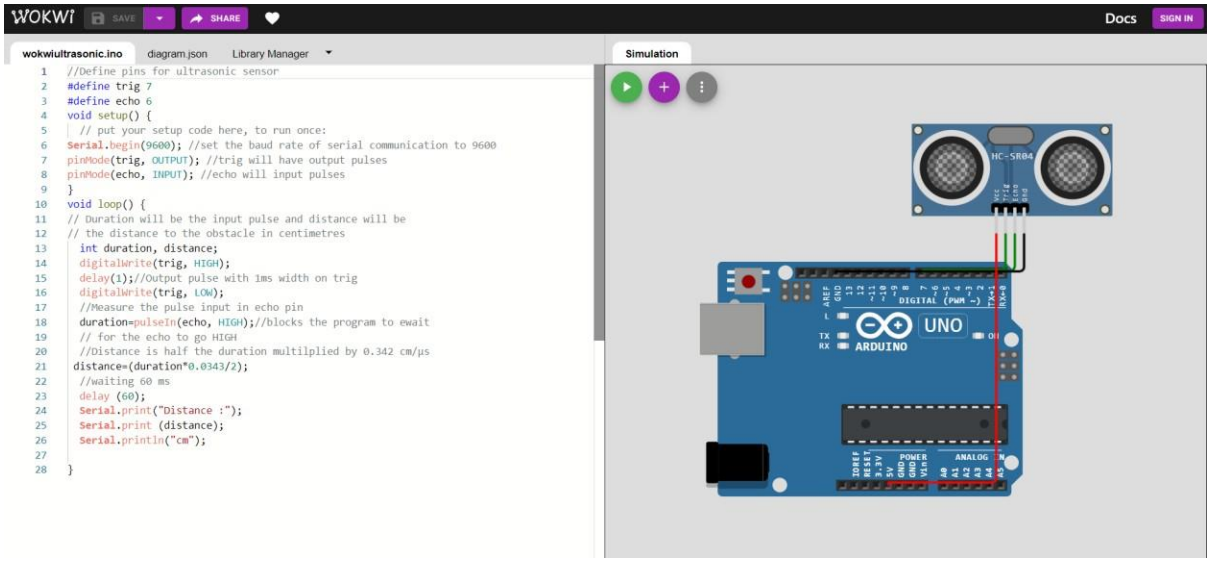
Assignment -4

Assignment Date	26 october 2022
Student Name	A.Karthikeyan
Student Roll Number	820419104028
Maximum Marks	2 Marks

Write code and connections in wokwi for the ultrasonic sensor. Whenever the distance is less than 100 cms send an "alert" to the IBM cloud and display in the device recent events.

```
//Define pins for ultrasonic sensor
#define trig 7
#define echo 6
void setup() {
  // put your setup code here, to run once:
Serial.begin(9600); //set the baud rate of serial communication to 9600
pinMode(trig, OUTPUT); //trig will have output pulses
pinMode(echo, INPUT); //echo will input pulses
}
void loop() {
// Duration will be the input pulse and distance will be
// the distance to the obstacle in centimetres
  int duration, distance;
  digitalWrite(trig, HIGH);
  delay(1);//Output pulse with 1ms width on trig
  digitalWrite(trig, LOW);
  //Measure the pulse input in echo pin
  duration=pulseIn(echo, HIGH);//blocks the program to ewait
  // for the echo to go HIGH
  //Distance is half the duration multilplied by 0.342 cm/µs
 distance=(duration*0.0343/2);
  //waiting 60 ms
  delay (60);
  Serial.print("Distance :");
  Serial.print (distance);
  Serial.println("cm");

}
```

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