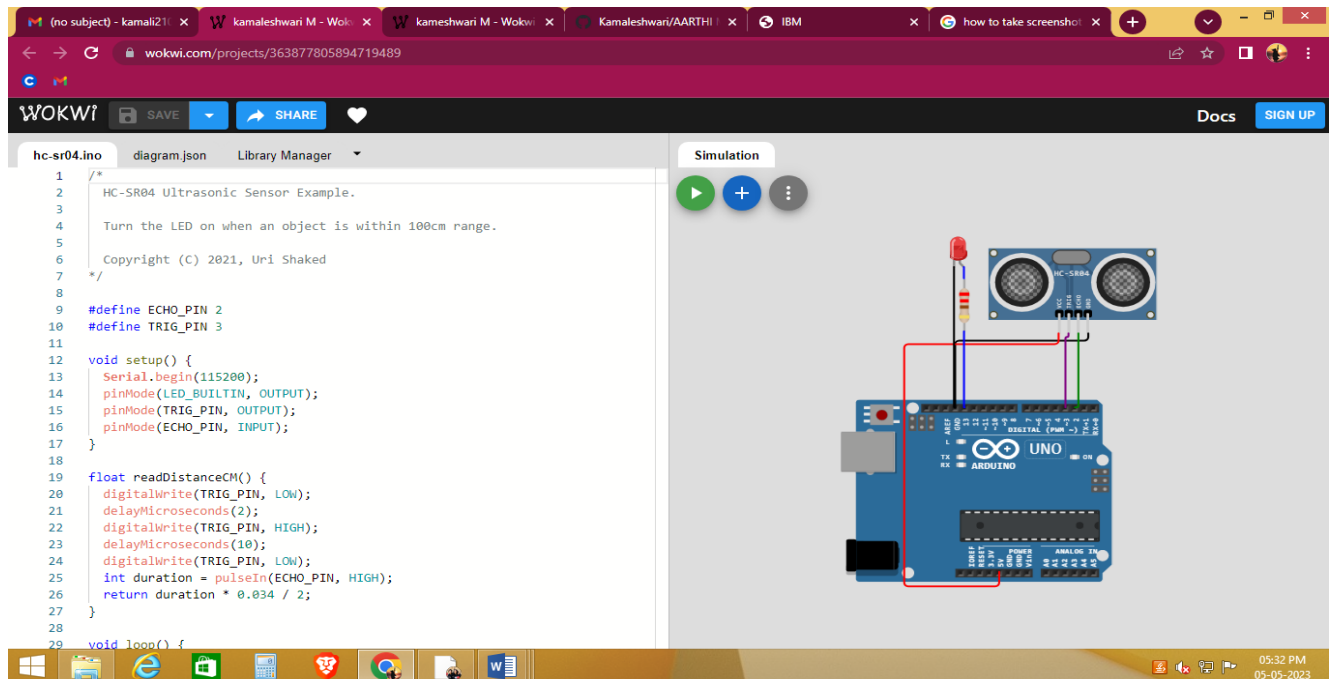


KAMALESHWARI M

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<https://wokwi.com/projects/363877805894719489>



## SKETCH.INFO

```
/*
  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

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();  
  
    bool isNearby = distance < 100;  
    digitalWrite(LED_BUILTIN, isNearby);  
  
    Serial.print("Measured distance: ");  
    Serial.println(readDistanceCM());  
  
    delay(100);  
}
```