Team ID : NM2023TMID10858

Team Member 3 : SWATHI.P

Wokwi link: https://wokwi.com/projects/363259657232183297

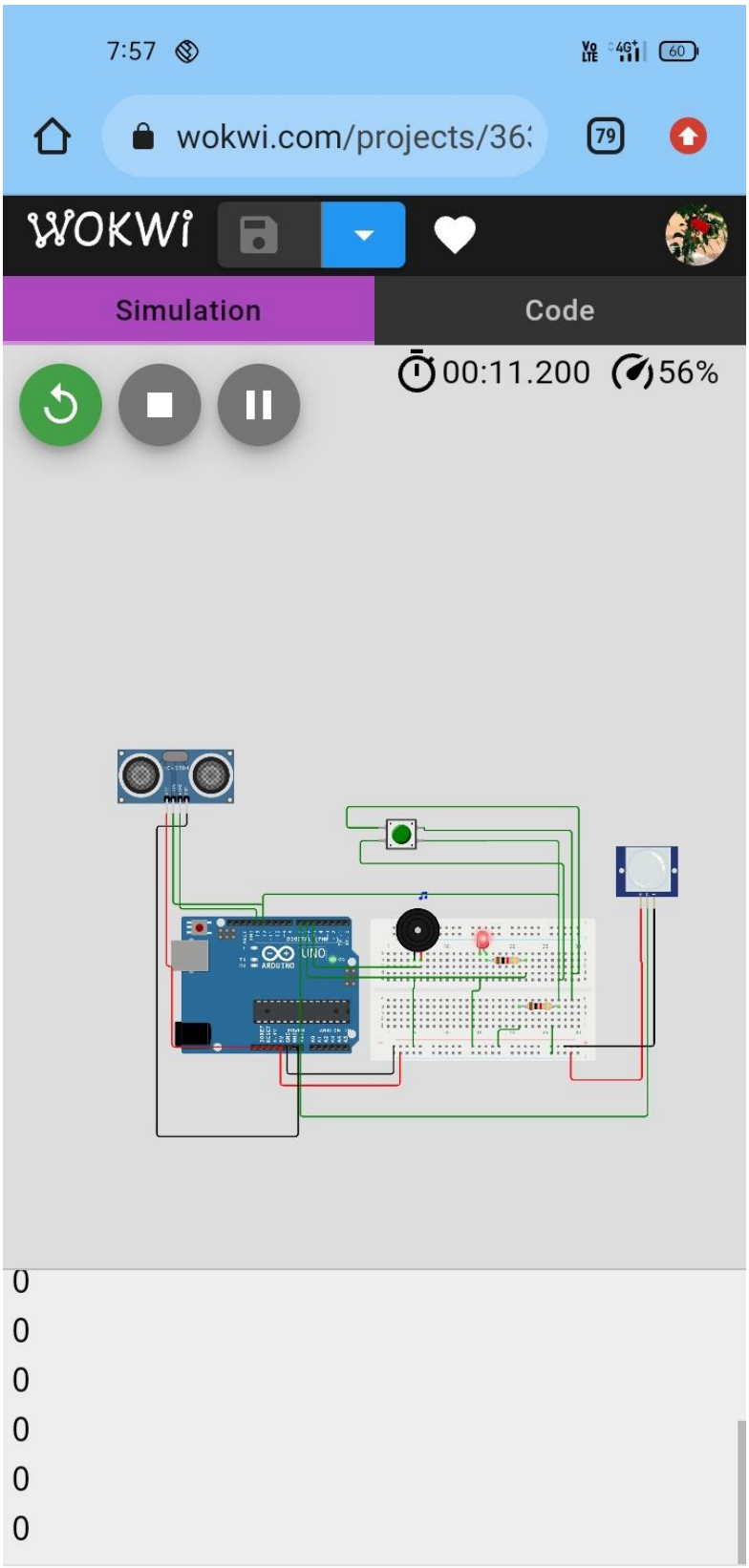
Code:

```
const int buzzerPin =5;
const int ledPin = 6;
const int motionPin =7;
const int buttonPin =12;
const int trigerPin =12;
const int echoPin=13;
const int speakerPin=10;
const int pitch=262;
boolean buzzer_mode =false;
int ledState =LOW;
long previousMillis = 0;
long interval =100;

double duration,distance;

void setup()
{
Serial.begin(9600);
Serial.println("buzzerPin");
  pinMode(buzzerPin,INPUT);
  pinMode(buttonPin,INPUT);
  delay(5000);
  pinMode(trigerPin,OUTPUT);
  pinMode(echoPin,INPUT);
  pinMode(ledPin,OUTPUT);
```

```
}

void loop()
{
  if (digitalRead(motionPin))
    buzzer_mode = true;

if (buzzer_mode)

 { unsigned long currentMillis =millis();
  if (currentMillis-previousMillis>interval)

    {previousMillis = currentMillis;
  if (ledState ==LOW)
     ledState =HIGH;
     else
     ledState =LOW;
     digitalWrite(ledPin,ledState);
    }
  tone(buzzerPin,1000);
   }
   if (buzzer_mode == false)
    noTone(buzzerPin);
    digitalWrite(ledPin,LOW);

  int button_state = digitalRead(buttonPin);
  if (button_state) {buzzer_mode = false;}
  Serial.println(button_state);
```

```
  digitalWrite(trigerPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigerPin, LOW);
  delayMicroseconds(2);

  duration =pulseIn(echoPin,HIGH);

  distance = (duration/2)*0.0343;

if(distance<200)
{
  digitalWrite(ledPin, HIGH);
  tone(speakerPin,pitch);
  delay(300);

  digitalWrite(ledPin, LOW);
  noTone(speakerPin);
  delay(300);
}
else
  digitalWrite(ledPin, LOW);
  noTone(speakerPin);
}
```

Schematics:


7:57
wokwi.com/projects/36
WOKWI
Simulation
Code
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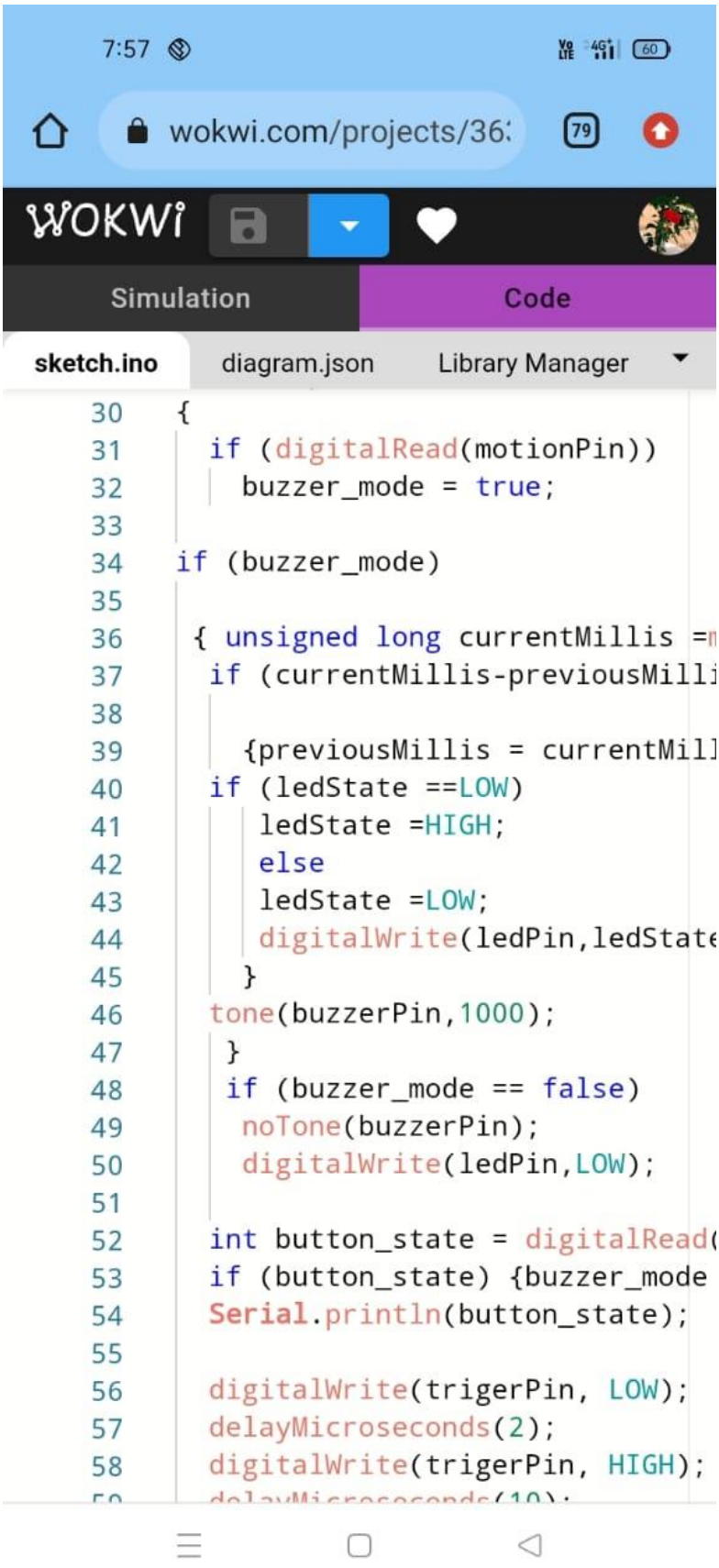
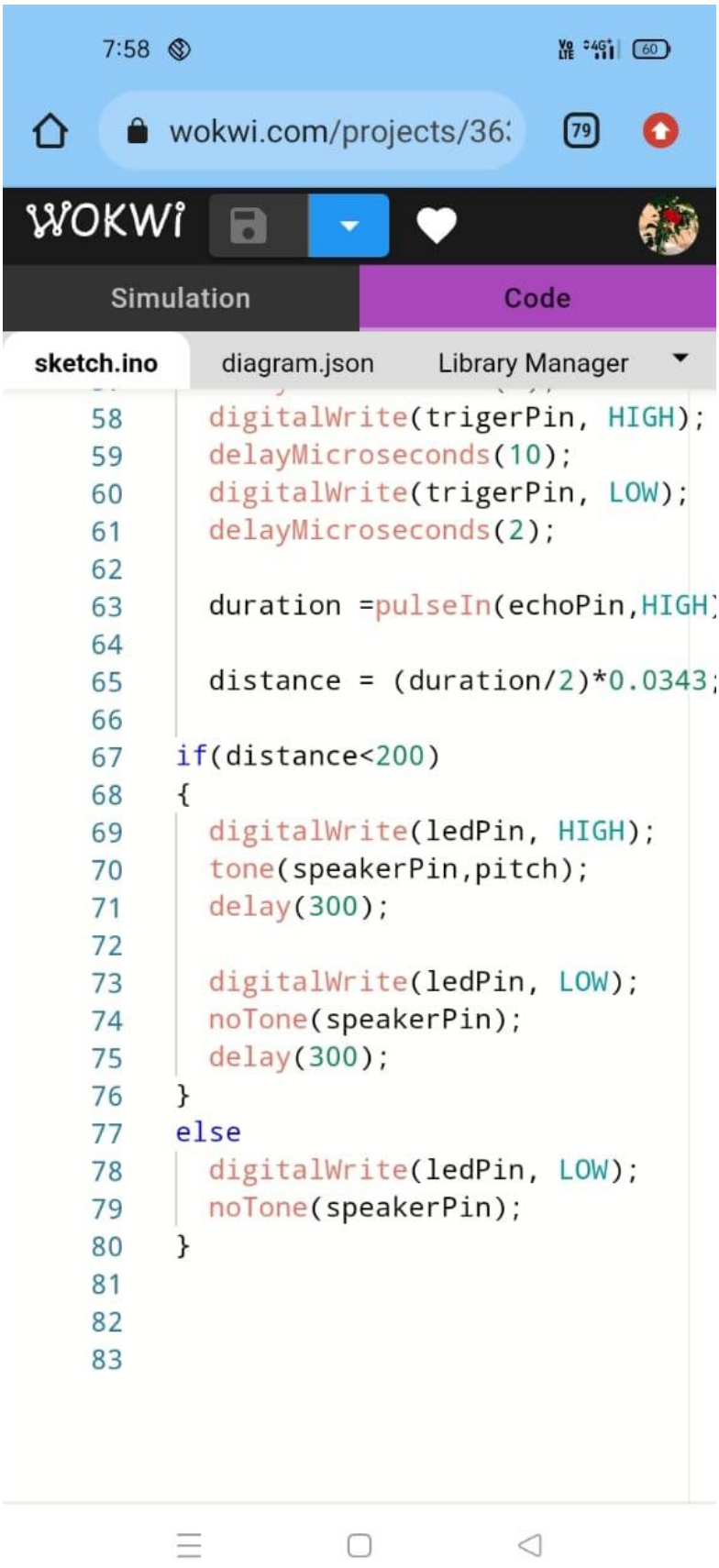
```
1
2   const int buzzerPin =5;
3   const int ledPin = 6;
4   const int motionPin =7;
5   const int buttonPin =12;
6   const int trigerPin =12;
7   const int echoPin=13;
8   const int speakerPin=10;
9   const int pitch=262;
10  boolean buzzer_mode =false;
11  int ledState =LOW;
12  long previousMillis = 0;
13  long interval =100;
14
15  double duration,distance;
16
17  void setup()
18  {
19  Serial.begin(9600);
20  Serial.println("buzzerPin");
21    pinMode(buzzerPin,INPUT);
22    pinMode(buttonPin,INPUT);
23    delay(5000);
24    pinMode(trigerPin,OUTPUT);
25    pinMode(echoPin,INPUT);
26    pinMode(ledPin,OUTPUT);
27  }
28
29  void loop()
30  {
```




```
{
  if (digitalRead(motionPin))
    buzzer_mode = true;

if (buzzer_mode)

 { unsigned long currentMillis =
  if (currentMillis-previousMilli

    {previousMillis = currentMill
  if (ledState ==LOW)
    ledState =HIGH;
    else
    ledState =LOW;
    digitalWrite(ledPin,ledState
    }
  tone(buzzerPin,1000);
   }
   if (buzzer_mode == false)
    noTone(buzzerPin);
    digitalWrite(ledPin,LOW);

  int button_state = digitalRead(
  if (button_state) {buzzer_mode
  Serial.println(button_state);

  digitalWrite(trigerPin, LOW);
  delayMicroseconds(2);
  digitalWrite(trigerPin, HIGH);
```




```
  digitalWrite(trigerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(trigerPin, LOW);
  delayMicroseconds(2);

  duration =pulseIn(echoPin,HIGH

  distance = (duration/2)*0.0343;

if(distance<200)
{
  digitalWrite(ledPin, HIGH);
  tone(speakerPin,pitch);
  delay(300);

  digitalWrite(ledPin, LOW);
  noTone(speakerPin);
  delay(300);
}
else
  digitalWrite(ledPin, LOW);
  noTone(speakerPin);
}
```