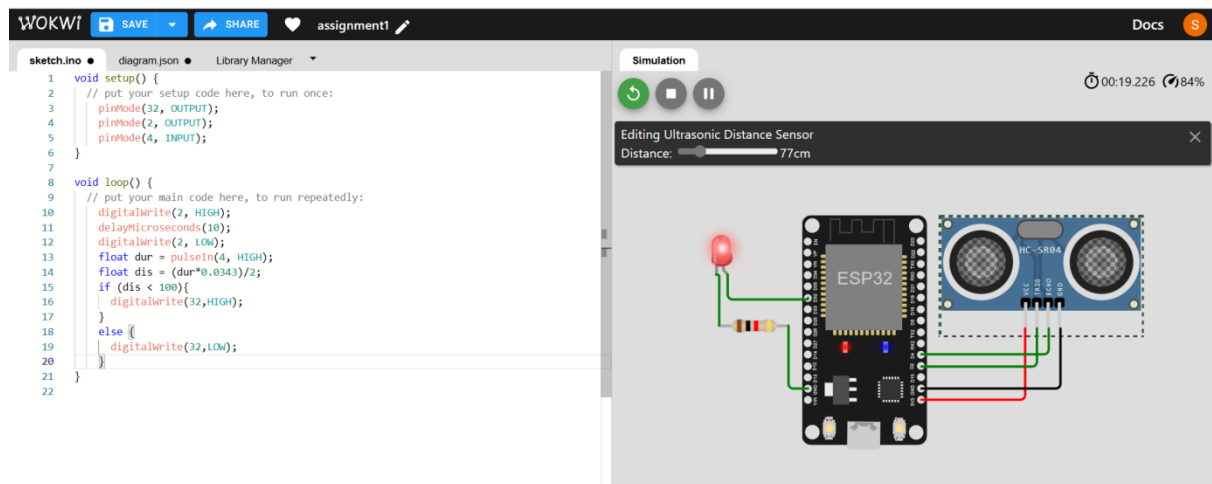2023

ASSIGNMENT 1
Ultrasonic Sensor with Arduino UNO

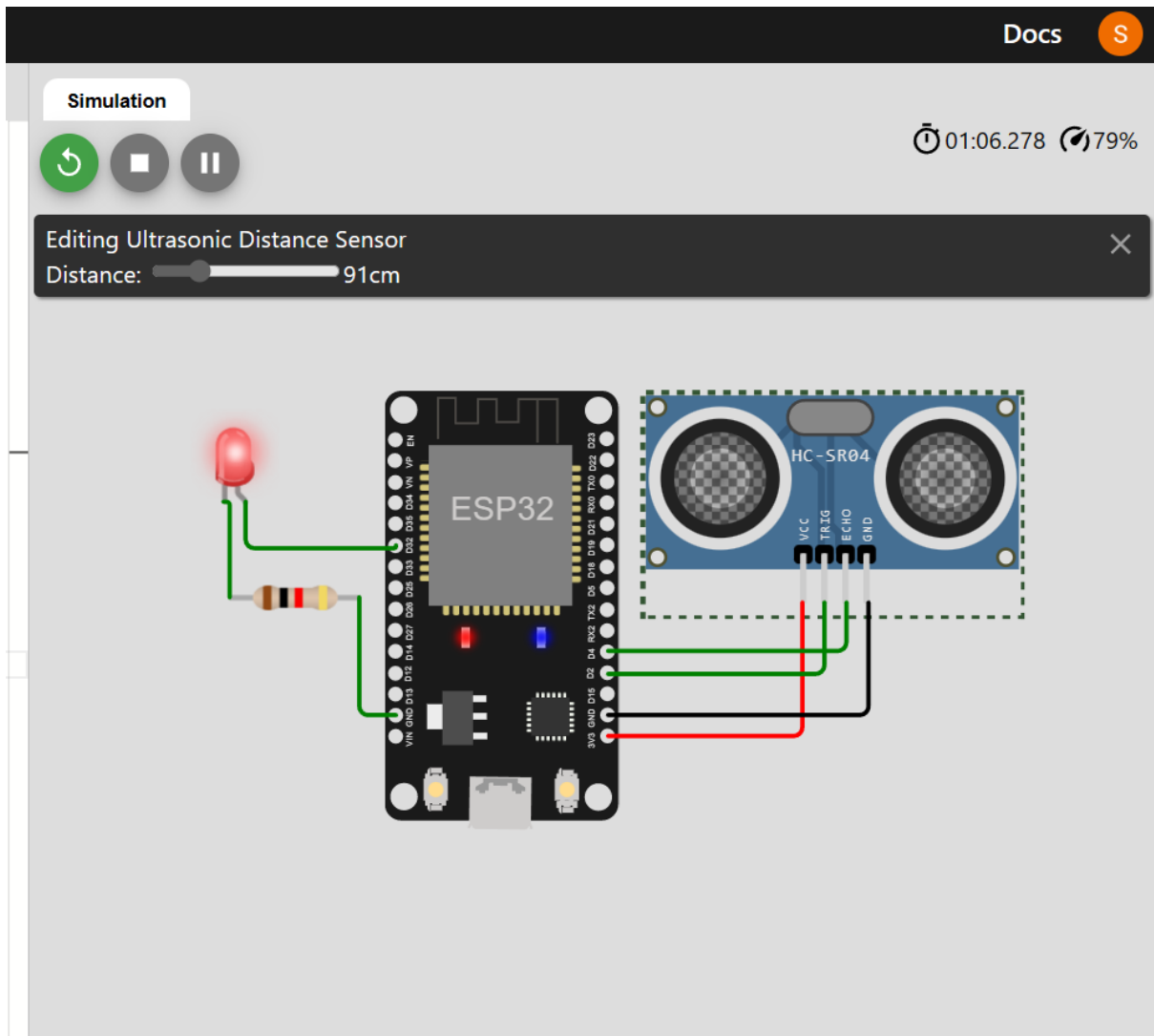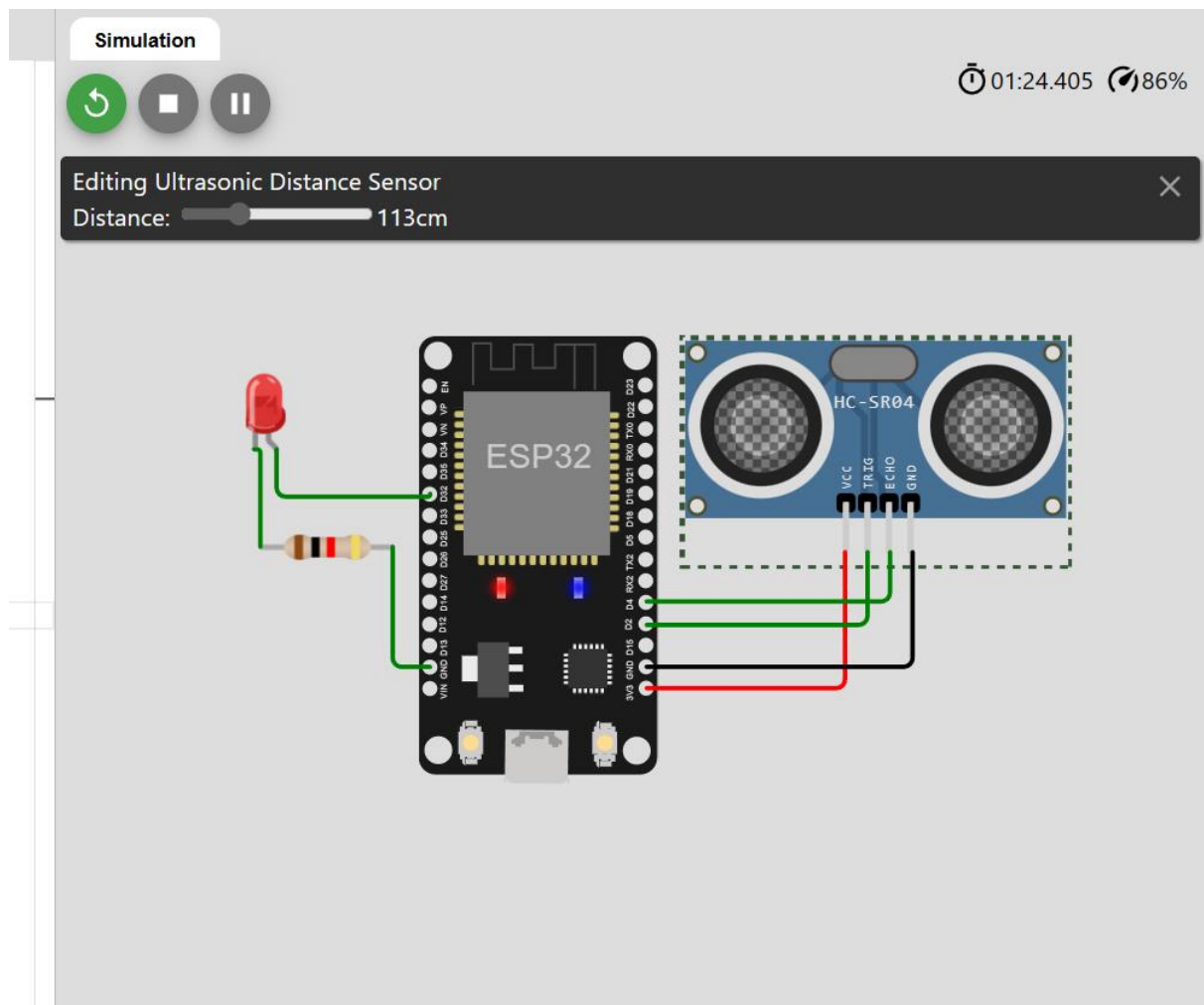Shreya Gupta
20BCT0165
5/19/2023

CODE:

```cpp
void setup() {
  // put your setup code here, to run once:
    pinMode(32, OUTPUT);
    pinMode(2, OUTPUT);
    pinMode(4, INPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
    digitalWrite(2, HIGH);
    delayMicroseconds(10);
    digitalWrite(2, LOW);
    float dur = pulseIn(4, HIGH);
    float dis = (dur*0.0343)/2;
    if (dis < 100){
      digitalWrite(32,HIGH);
    }
    else {
      digitalWrite(32,LOW);
    }
}
```

Link to project:

https://wokwi.com/projects/365436412960193537