

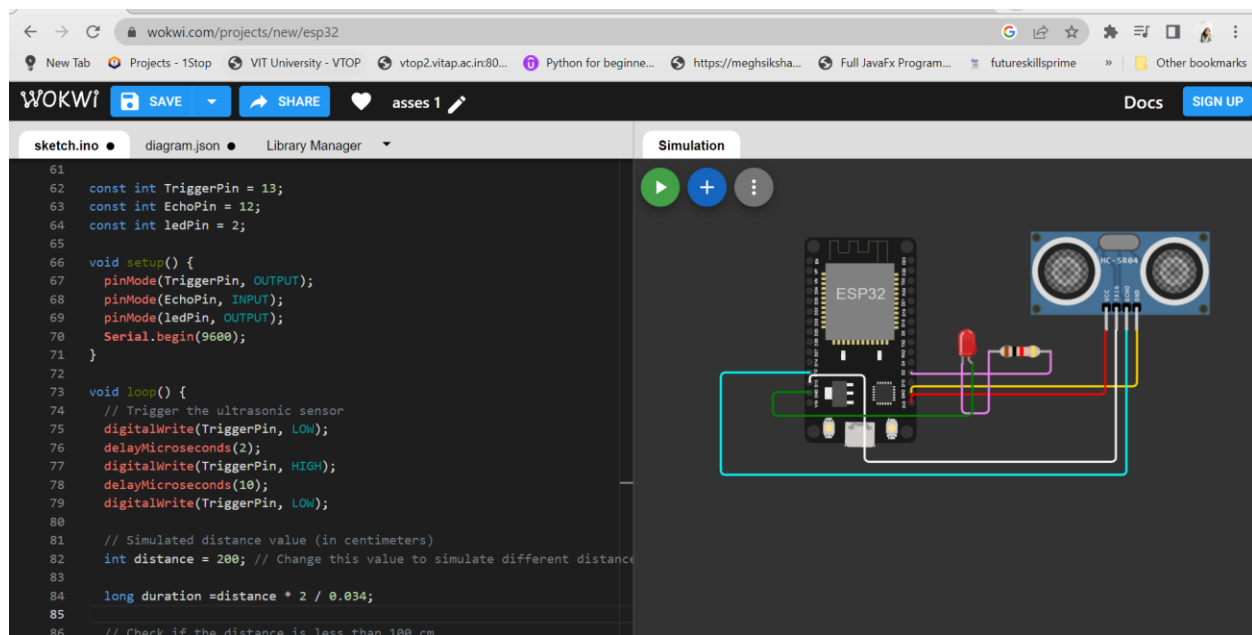
# SMARTBRIDGE EXTERNSHIP (Internet Of Things)

## ASSIGNMENT 1

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**REG NO.:20BCI7172**

*In Wokwi, if the distance is less than 100 cms for ultrasonic sensor, glow a LED.*



**Code:**

```
const int TriggerPin = 13;
const int EchoPin = 12;
```

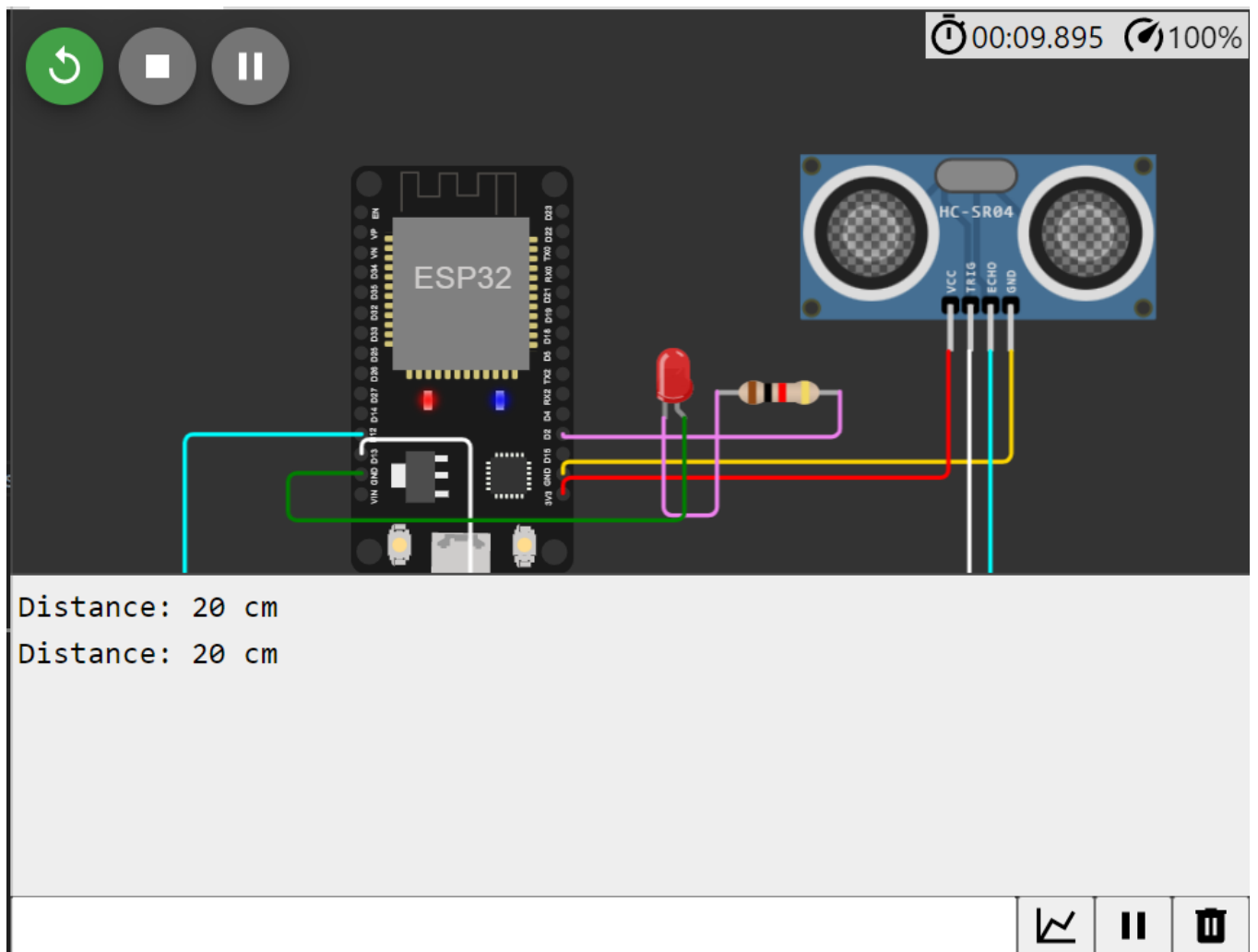
```
const int ledPin = 2;

void setup() {
  pinMode(TriqgerPin, OUTPUT);
  pinMode(EchoPin, INPUT);
  pinMode(ledPin, OUTPUT);
  Serial.begin(9600);
}

void loop() {
  // Trigger the ultrasonic sensor
  digitalWrite(TriqgerPin, LOW);
  delayMicroseconds(2);
  digitalWrite(TriqgerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(TriqgerPin, LOW);
  // Simulated distance value (in centimeters)
  int distance = 200; // Change this value to simulate different distances
  long duration =distance * 2 / 0.034;
  // Check if the distance is less than 100 cm
  if (distance < 100) {
    digitalWrite(ledPin, HIGH); // Turn on the LED
  } else {
    digitalWrite(ledPin, LOW); // Turn off the LED }
  Serial.print("Distance: ");
  Serial.print(distance);
```

```
Serial.println(" cm");  
delay(5000);  
}
```

**When distance less than 100 cms LED is blinking**



When distance is more than 100 led will not blink

