ASSESSMENT-4

ASSESSMENT DATE	05 November 2022
NAME	Saravanakumar M
REGISTER NUMBER	913119106096
MARKS	2 Marks

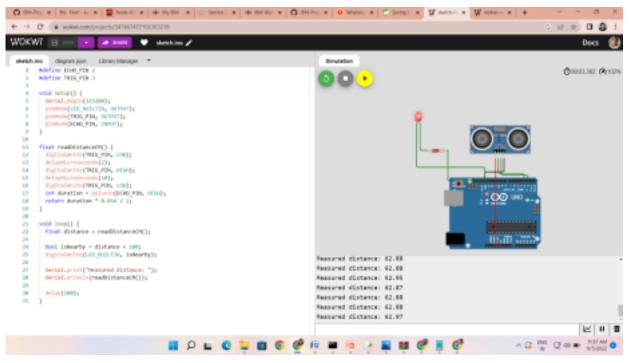
PROBLEM:

CODE:

```
#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;</pre>
digitalWrite(LED_BUILTIN, isNearby);
Serial.print("Measured distance: ");
```

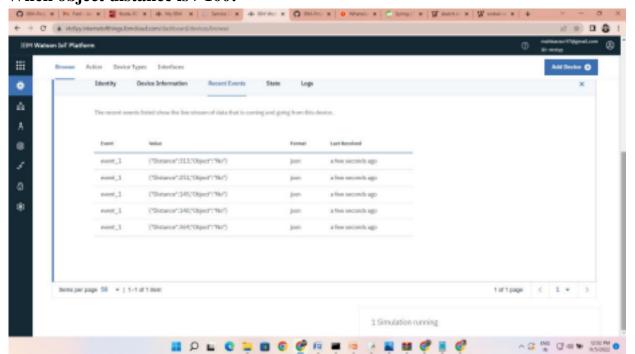
```
Serial.println(readDistanceCM());

delay(100);
}
SIMULATION:
```



Link: https://wokwi.com/projects/347467477102363218

When object distance is >100:



When object distance is <100:

