VIT, Vellore-Externship Program

Assignment-1

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Wokwi Link:

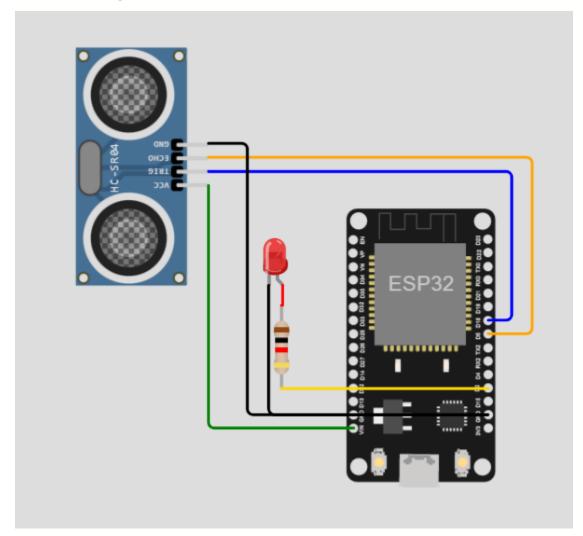
https://wokwi.com/projects/365902301877798913

Code:

```
#define TRIG PIN 18
#define ECHO_PIN 5
#define LED 2
float duration us, distance cm;
void setup() {
  Serial.begin(9600);
 pinMode(TRIG PIN, OUTPUT);
 pinMode(ECHO_PIN, INPUT);
 pinMode(LED, OUTPUT);
}
void loop() {
  digitalWrite(TRIG PIN, HIGH);
  delayMicroseconds(10);
  digitalWrite(TRIG PIN, LOW);
  duration us = pulseIn(ECHO PIN, HIGH);
  distance cm = 0.017 * duration us;
  if (distance_cm < 100) {</pre>
    digitalWrite(LED, HIGH);
```

```
else{
    digitalWrite(LED, LOW);
}
Serial.print("distanceA: ");
Serial.print(distance_cm);
Serial.println(" cm ");
}
```

Circuit Diagram:



LED Glowing Screen shots:

