

IoT Smart Bridge

Assignment Week 1

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20BCE1436

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

Link:

<https://wokwi.com/projects/365340189555008513>

Code:

```
int t = 2;
int e = 3;
void setup() {
  Serial.begin(9600);
  pinMode(13, OUTPUT);
  pinMode(t, OUTPUT);
  pinMode(e, INPUT);
}

void loop() {
  digitalWrite(t, LOW);
  digitalWrite(t, HIGH);
  delayMicroseconds(10);
  digitalWrite(t, LOW);
  float dur = pulseIn(e, HIGH);
  float dis = (dur*0.0343)/2;
  if (dis < 100)
  {
    digitalWrite(13, HIGH);
    delay(1000);
  }
  else{
    digitalWrite(13, LOW);
  }
}
```

Screenshot



