IOT Assignment -1

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

CODE:

```
int t= 5;

int e= 18;

//20BCR7022

void setup() {

 // put your setup code here, to run once:

 Serial.begin(115200);

 Serial.println("Hello, ESP32!");

pinMode(t, OUTPUT); // Sets the trigPin as an Output

 pinMode(e, INPUT);

 pinMode(21,OUTPUT);

}


void loop() {



 // put your main code here, to run repeatedly:

 delay(10); // this speeds up the simulation

 digitalWrite(t,LOW);

 digitalWrite(t,HIGH);

 delayMicroseconds(10);

 digitalWrite(t,LOW);

 float dur = pulseIn(e,HIGH);

 float dis =(dur*0.0343)/2;
```

```
  Serial.print("Distance in cm: ");

  Serial.println(dis);

  if(dis<100)

  {

digitalWrite(21,HIGH);

  }

  else{

   digitalWrite(21, LOW);

  }


}
```

OUTPUT: