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**19R11A04J1**

**IOT ASSIGNMENT-2**

**#include<Servo.h>**

**Servo myservo;**

**int trigpin=2;**

**int echopin=5;**

**void setup()**

**{**

**pinMode(trigpin,OUTPUT);**

**pinMode(echopin,INPUT);**

**myservo.attach(12);**

**Serial.begin(9600);**

**}**

**void loop()**

**{**

**digitalWrite(trigpin,HIGH);**

**delay(1000);**

**digitalWrite(trigpin,LOW);**

**float duration=pulseIn(echopin,HIGH);**

**float distance=(duration\*0.034)/2;**

**Serial.println("the distance is");**

**Serial.println(distance);**

**if(distance<=100)**

**{**

**myservo.write(90);**

**Serial.println("servo is at a angle 90");**

**delay(1000);**

**}**

**else**

**{**

**myservo.write(0);**

**Serial.println("servo is at a angle 0");**

**delay(1000);**

**}**

**}**





