smart home -DHARMADURAI

assignment- https:/wokwi.com/projects/363138278358443009

```
//define variables
#define trigerPin 12
#define echoPin 13
#define ledPin 2
#define speakerPin 10
#define pitch 262
double duration, distance;
void setup() {
 //setup for sensor
 Serial.begin(9600);
  pinMode(trigerPin,OUTPUT);
  pinMode(echoPin,INPUT);
  //setup for LED
  pinMode(ledPin,OUTPUT);
  //setup for speaker
  pinMode(speakerPin,OUTPUT);
}
void loop() {
 //looping sensor(create sound wave)
  digitalWrite(trigerPin,LOW);
  delayMicroseconds(2);
  digitalWrite(trigerPin,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigerPin,LOW);
  delayMicroseconds(2);
//getduration
duration = pulseIn(echoPin,HIGH);
//caculate distance
```

```
distance = (duration/2) * 0.0343;
//consider maximum width of the door = 200 cm
if(distance<200){</pre>
  digitalWrite(ledPin,HIGH);
  tone(speakerPin, pitch);
  delay(300);
  digitalWrite(ledPin, LOW);
  noTone(speakerPin);
  delay(300);
}
else{
  digitalWrite(ledPin,LOW);
  noTone(speakerPin);
}
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