

RMK ENGINEERING COLLEGE
KAVARAIPETTAI
DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING
IBM NALAIYA THIRAN
ASSIGNMENT-1

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SMART HOME AUTOMATION-DOOR BUZZER

CODING:

```
int trig=2;
int echo=3;

int buzzer=10;

int time;

int distance;

void setup()
{
  Serial.begin(9600);
  pinMode(trig,OUTPUT);
  pinMode(echo,INPUT);
  pinMode(buzzer,OUTPUT);
}

void loop()
{
  digitalWrite(trig,HIGH);
```

```
delayMicroseconds(10);  
digitalWrite(trig,LOW);  
time=pulseIn (echo,HIGH);  
distance=(time*0.034)/2;  
if(distance<=10)  
{  
  Serial.println("DOOR OPEN");  
  Serial.print("distance:");  
  Serial.println(distance);  
  digitalWrite(buzzer,HIGH);  
  delay(500);  
}  
else  
{  
  Serial.println("DOOR CLOSED");  
  Serial.print("distance:");  
  Serial.println(distance);  
  digitalWrite(buzzer,LOW);  
  delay(500);  
}  
}
```

