

RMK COLLEGE OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

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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);
}
}
```

