

RMK ENGINEERING COLLEGE

KAVARAIPETTAI

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

IBM NALAIYA THIRAN

ASSIGNMENT-1

TEAM LEADER: UMA MAHESWARA REDDY PUTTA

TEAM MEMBER: SAISANDEEP K M

SURENDAR T

SHANDRU G

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);
}
}
```

