S.A ENGINEERING COLLEGE

AVADI

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);
}
}
```

