SRI SHANMUGHA COLLEGE OF ENGINEERING AND TECHNOLOGY DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING

ASSIGNMENT-1

IBM NALAIYA THIRAN

SMART HOME AUTOMATION-DOOR BUZZER

TEAM MEMBER: UMABHARATHIS

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);
}
}
```

OUTPUT:

