

IBM NALAIYA THIRAN

ASSIGNMENT-1

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SMART HOME AUTOMATION-DOOR BUZZER

CODE:

```
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);

}

}

```

