

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);

}

}

```

