

SKILL VERTEX IOT

INTERNSHIP– MINI PROJECT

DOOR BUZZER USING ULTRASONIC SENSOR

TEAM MEMBERS:

- A.V.S. Reshmi
- B. Manaswini

SUMMARY

The interfacing of Ultrasonic sensor with Arduino UNO to develop a Door Buzzer system using online virtual tool tinkercad.com

CODE

```
// Door Alarm Using Arduino UNO and Ultrasonic Sensor
// Code to be used in the Text sub-window of tinkercad.com circuit page

int trigger_pin = 2;
int echo_pin = 3;
int buzzer_pin = 10;
int time;
int distance;
void setup()
{
    Serial.begin (9600);
    pinMode (trigger_pin, OUTPUT);
    pinMode (echo_pin, INPUT);
    pinMode (buzzer_pin, OUTPUT);
}
void loop()
{
    digitalWrite (trigger_pin, HIGH);
    delayMicroseconds (10);
    digitalWrite (trigger_pin, LOW);
    time = pulseIn (echo_pin, HIGH);
```

```

    distance = (time * 0.034) / 2;

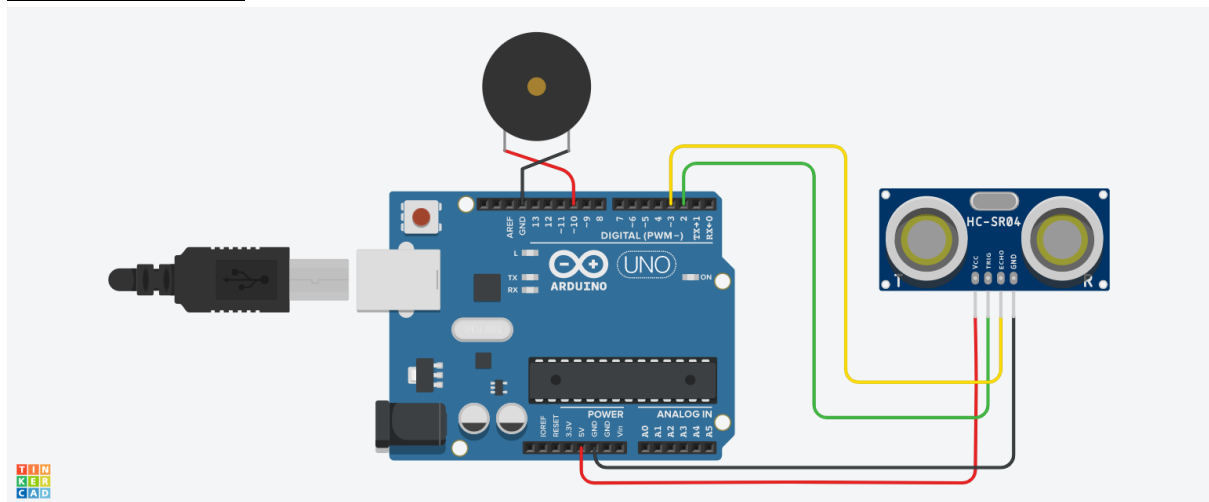
    if (distance <= 10)
    {
        Serial.println (" Door Open ");
        Serial.print (" Distance= ");
        Serial.println (distance);
        digitalWrite (buzzer_pin, HIGH);
        delay (500);
    }
    else {
        Serial.println (" Door closed ");
        Serial.print (" Distance= ");
        Serial.println (distance);
        digitalWrite (buzzer_pin, LOW);
        delay (500);
    }
}

```

GITHUB LINK FOR CODE

<https://github.com/reshmi912/Door-Buzzer-Using-Ultrasonic-Sensor>

CIRCUIT SNAPSHOT



VIDEO OF THE MODEL

https://youtu.be/Q_GPJPM2keU