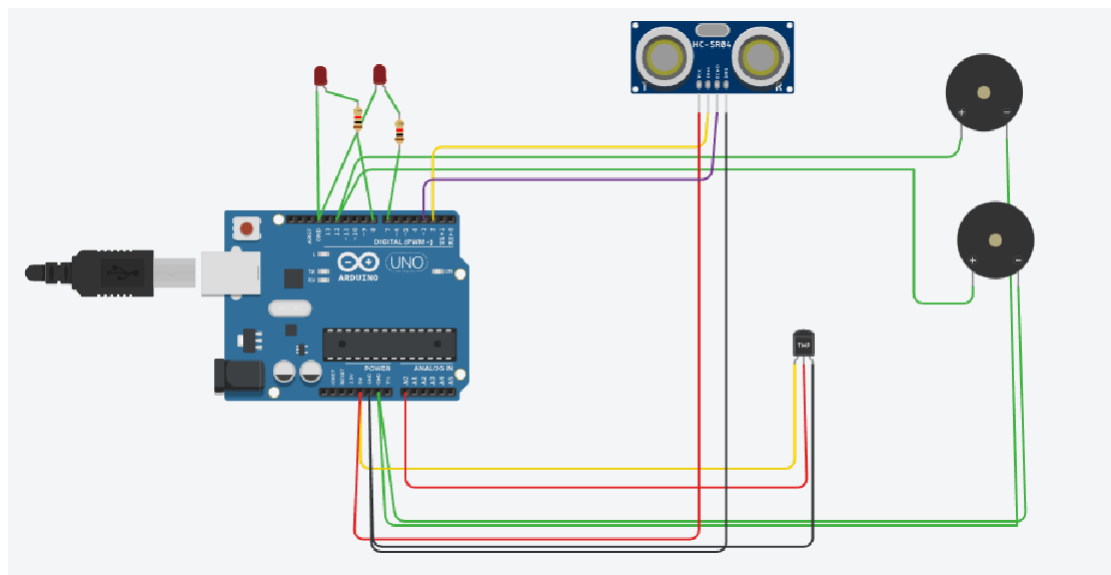


**SUBMITTED BY : M.SUGAPRIYA**

**TOPIC : IOT BASED SAFETY GADGET FOR CHILD SAFETY MONITORING AND NOTIFICATION**

**ASSIGNMENT 1 : BUILD A SMART HOME IN TINKERCAD USE ATLEAST 2 SENSOR , LED ,BUZZER IN A CIRCUIT. SIMULATE IN A SINGLE CODE**

**CIRCUIT DIAGRAM**



**PROGRAM**

```
int t=2;
```

```
int e=3;

void setup(){
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e,INPUT);
  pinMode(12,OUTPUT);
} void loop(){
  digitalWrite(t,LOW);
  digitalWrite(t,HIGH);
  delayMicroseconds(10);
  digitalWrite(t,LOW);
  float dur=(e,HIGH);
  float dis=(dur*0.0343)/2;
  Serial.print("Distance is;");
  Serial.println(dis);
  if(dis>100){
    digitalWrite(8,HIGH);
    digitalWrite(7,HIGH);
  }
  if(dis>=100)
  {
```

```
for(int i=0;i<=30000;i=i+10)
{
tone(12,i);
delay(1000);
noTone(12);
delay(1000);
}
}

double a=analogRead(A0);
double intt=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value");
Serial.println(t);
delay(1000);
if(t>=100){
digitalWrite(8,HIGH);
digitalWrite(7,HIGH);
}
if(t=100)
{
for(int i=0;i<=30000;i=i+10)
{
```

```
tone(12,i);
```

```
delay(1000);
```

```
noTone(12);
```

```
delay(1000);
```

```
}
```

```
}
```

```
if(t<100)
```

```
{
```

```
digitalWrite(8,LOW);
```

```
digitalWrite(7,LOW);
```

```
}
```

```
}
```