

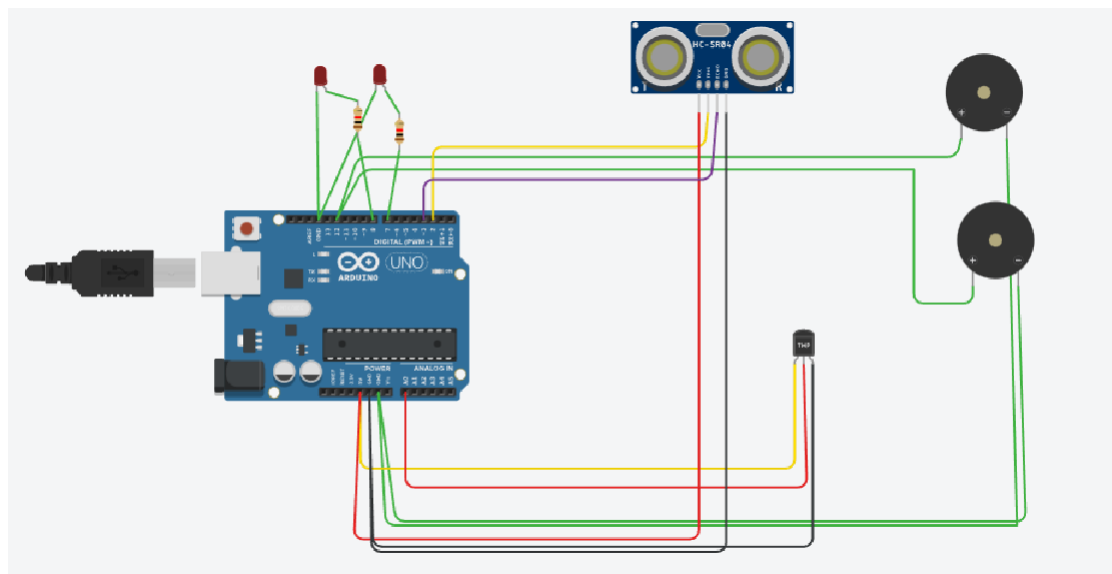
**TOPIC:**

# 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);
```

```
}
```

```
}
```