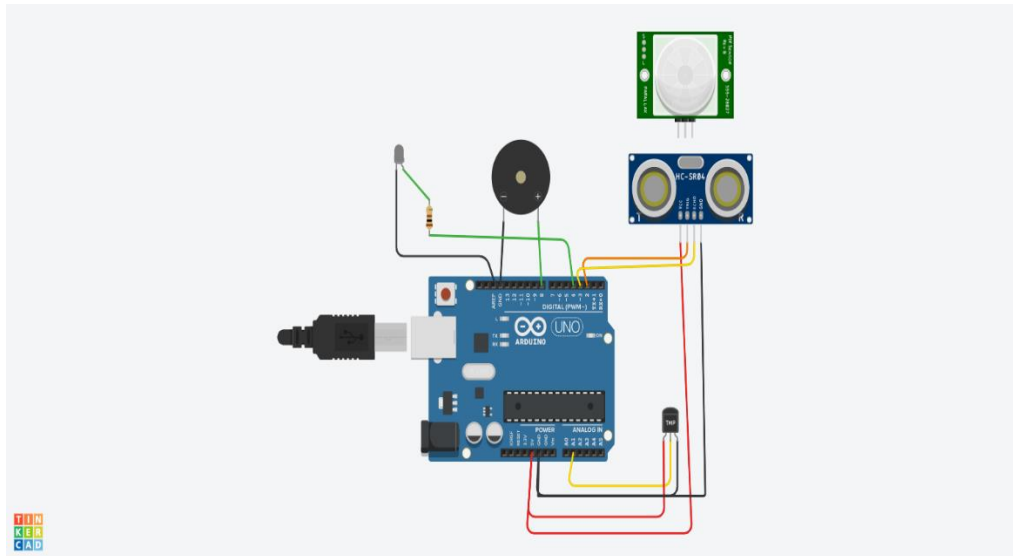


# ASSIGNMENT

## SMART HOME USING 2 SENSORS, LED AND BUZZER

CIRCUIT DIAGRAM:



CODE:

```
// C++ code
//
int trig =2;
int echo =3;
void setup()
{
  Serial.begin(9600);
  pinMode(9,OUTPUT);
  pinMode(trig,OUTPUT);
```

```
pinMode(echo,INPUT);
}
void loop()
{
double a=analogRead(A1);
Serial.print("Adc Value:");
Serial.println(a);
double v= a/1024;
double tvolt= v*5;
Serial.print("temp value voltage:");
Serial.println(tvolt);
double o = tvolt-0.5;
double t= o*100;
Serial.print ("Temperature is :");
Serial.println(t);
if (t>=50)
{
digitalWrite(9,HIGH);
}
else
{
digitalWrite(9,LOW);
}
digitalWrite(trig,LOW);
digitalWrite(trig,HIGH);
delayMicroseconds(10);
digitalWrite(trig,LOW);
float dur = pulseIn(echo,HIGH);
float dist = (dur*0.0343)/2;
```

```
Serial.print("distance:");
```

```
Serial.println(dist);
```

```
if (dist>=100)
```

```
{
```

```
digitalWrite(4,HIGH);
```

```
}
```

```
else
```

```
{
```

```
digitalWrite(4,LOW);
```

```
}
```

```
}
```

Tinkercad link: <https://www.tinkercad.com/things/9AQfJblqe7q-dazzling-hillar-bojo/editel?tenant=circuits>