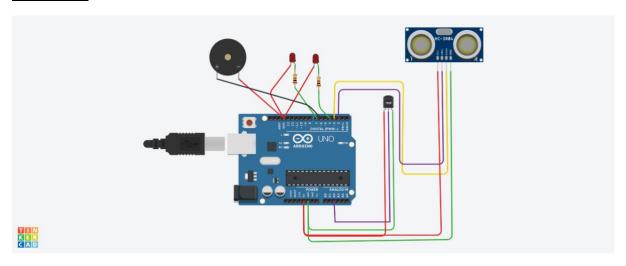
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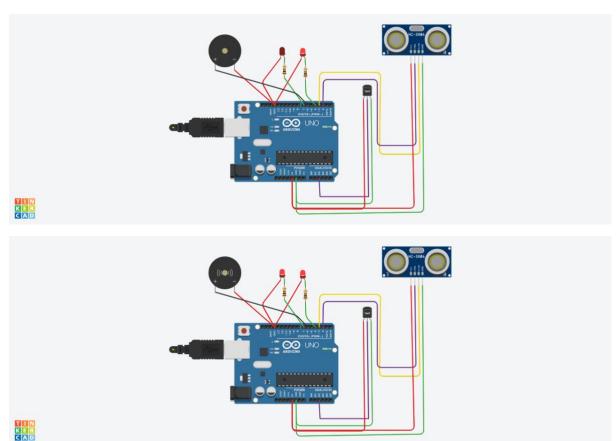
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ASSIGNMENT-1 SMART HOME USING TINKERCAD

CIRCUIT:



SIMULATION:



```
CODE:
// C++ code
int trig = 2;
int echo = 3;
int led=4;
int buz=6;
int led1=7;
void setup()
Serial.begin(9600);
pinMode(trig,OUTPUT);
pinMode(echo,INPUT);
pinMode(led,OUTPUT);
pinMode(led1,OUTPUT);
pinMode(buz,OUTPUT);
void loop()
// temperature sensor
double t = analogRead(A2);
Serial.print("Analog data: ");
Serial.println(t);
double n= t/1024;
double v=n*5;
Serial.print("Voltage data: ");
Serial.println(v);
double c=v-0.5;
double k=v*100;
Serial.print("Temperature value:");
```

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REG. NO.: 211419106501

```
REG. NO.: 211419106501
Serial.println(k);
delay(1000);
//ultasonic sensor
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 in cm:");
Serial.println(dist);
_//led
if(dist>=100)
_{
digitalWrite(led,HIGH);
_}
else
_{
__digitalWrite(led,LOW);
_}
//buzzer
digitalWrite(buz,LOW);
digitalWrite(led1,LOW);
delay(1000);
digitalWrite(buz,HIGH);
digitalWrite(led1,HIGH);
delay(1000);
```

}

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