ASSIGNMENT 1

Assignment Date	16 NOVEMBER 2022
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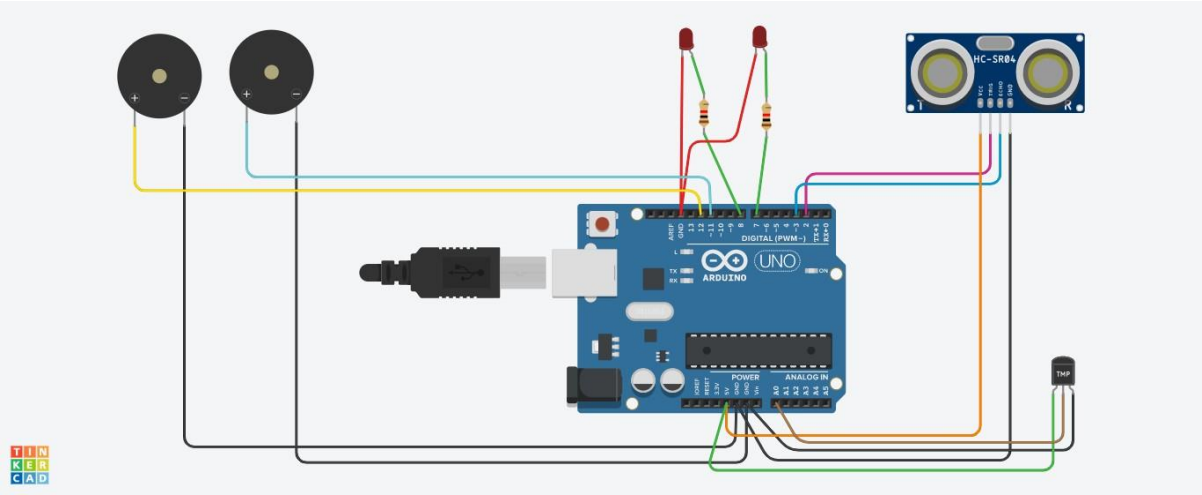
Team ID	PNT2022TMID0607
Maximum Marks	2 Marks

```
//
C++
code
        //
        int
          t=2;
           int e=3;
           void setup()
           {
            Serial.begin(9600);
            pinMode(t,OUTPUT);
            pinMode(e,INPUT);
            pinMode(12,OUTPUT);
            pinMode(11,OUTPUT);

           }

           void loop()
           {
            //ultrasonic sensor
            digitalWrite(t,LOW);
            digitalWrite(t,HIGH);
            delayMicroseconds(10);
            digitalWrite(t,LOW);
            float dur=pulseIn(e,HIGH);
            float dis=(dur*0.0456)/2;
            Serial.print("distance is: ");
            Serial.println(dis);

            //LED ON
            if(dis>=100)
            {
             digitalWrite(8,HIGH);
             digitalWrite(7,HIGH);
            }
```

```
//Buzzer For ultrasonic Sensor if(dis>-100)
if(dis>=100)
{
 for(int i=0; i<=30000; i=i+10)
 {
  tone(12,i);
  delay(1000);
  noTone(12);
  delay(1000);
  }
 }
//Temperate Sensor
double a= analogRead(A0);
double t=(((a/1024)*5)-0.5)*100;
Serial.print("Temp Value: ");
Serial.println(t);
delay(1000);

//LED ON
if(t>=100)
{
 digitalWrite(8,HIGH);
 digitalWrite(7,HIGH);
}
//Buzzer For temperature Sensor
if(t>=100)
{
 for(int i=0; i<=30000; i=i+10)
 {
 tone(11,i);
 delay(1000);
 noTone(11);
 delay(1000);
 }
}
//LED OFF
if(t<=100)
{

digitalWrite(8,LOW);
digitalWrite(7,LOW);
 }
 }
```


HC-SR04
UNO
ARDUINO
DIGITAL (PWM~)
POWER
ANALOG IN
TMP
TINKERCAD