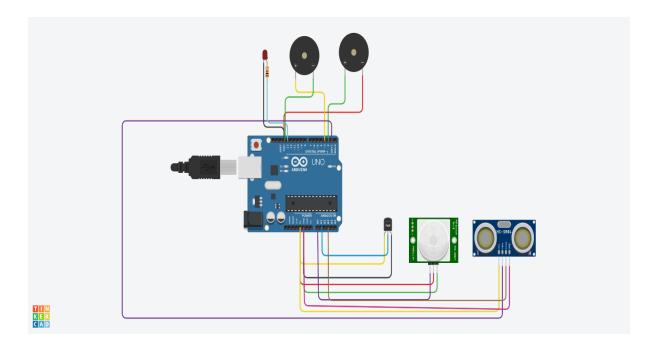
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Assignment : Home automation



```
Code:
byte tmp=A1;
byte buzzer=2;
byte buzzer1=3;
byte PIR=A0;
int t = 1;
int e = A3;
int led = 13;
int tmplevel,tmplevel1,PIR1,gas1;
void setup()
{
 pinMode(buzzer, OUTPUT);
pinMode(tmp,INPUT);
pinMode(PIR, INPUT);
 pinMode(buzzer, OUTPUT);
 pinMode(buzzer1, OUTPUT);
 pinMode(t, OUTPUT);
 pinMode(e, INPUT);
 pinMode(led,OUTPUT);
```

```
Serial.begin(9400);
}
void loop()
 tmplevel=analogRead(tmp);
 PIR1=digitalRead(PIR);
 int b=map(gas1,0,1023,0,255);
 tmplevel1=tmplevel*0.488;
 //Temperature chech
 if(tmplevel1>60)
  Serial.println("Temperature High");
  Serial.println(tmplevel1);
  digitalWrite(buzzer,HIGH);
  delay(100);
 }
 else
  Serial.println("Temperature Low");
  digitalWrite(buzzer,LOW);
 }
 //Movement check
 if(PIR1==HIGH)
  Serial.println("Movement Detected");
  digitalWrite(buzzer1,HIGH);
  delay(100);
 }
 else
  Serial.println("Movement not Detected");
  digitalWrite(buzzer1,LOW);
 digitalWrite(t, LOW);
 digitalWrite(t, HIGH);
 delayMicroseconds(10);
 digitalWrite(t, LOW);
 float duration = pulseIn(e, HIGH);
 float distance = (duration * 0.034) / 2;
 Serial.print("Distance to take Tank full:");
 Serial.println(distance);
 //Cheking Tank filling
 if(distance < 10)
```

```
{
    Serial.print("Tank is going to full");
    digitalWrite(led,HIGH);
}
else
{
    Serial.print("Tank is Not full");
    digitalWrite(led,LOW);
}
```