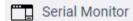
# **SMART HOME**

### CODE:

```
#include<Servo.h>
Servo s;
void setup()
{
 pinMode(2,OUTPUT); //Red LED
 pinMode(4,OUTPUT); //Blue LED
 pinMode(A0,INPUT); //Temperature Sensor
 pinMode(3,OUTPUT); //Buzzer
s.attach(6); //ServoMotor
 pinMode(11,INPUT); //PIR Sensor
Serial.begin(9600);
}
void loop()
{
double a=analogRead(A0);
double t=((((a/1024)*5)-0.5)*100);
//If Temperature increases beyond 100 degree
 if(t>100){
  digitalWrite(2,HIGH); //Red led ON
  Serial.println("HIGH TEMPERATURE");
  Serial.println(t);
  tone(3,1000); //Buzzer ON
  delay(500);
  tone(3,500);
  delay(500);
  s.write(180); // Door/Window open
```

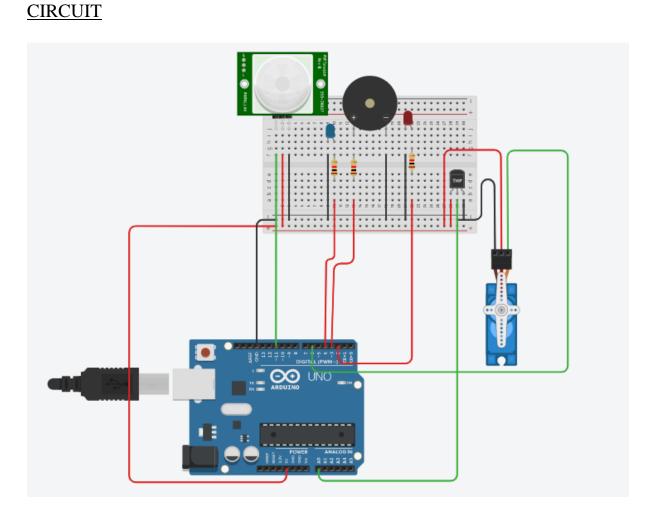
```
delay(15);
}
 else{
  digitalWrite(2,LOW);
  Serial.print("Temperature is ");
  Serial.println(t);
  noTone(3); //Buzzer OFF
  delay(1000);
  s.write(0);
}
delay(500);
//If Motion is Detected
digitalWrite(4,LOW);
int b=digitalRead(11);
if(b){
Serial.println("MOTION DETECTED");
digitalWrite(4,HIGH); //Blue led ON
  for(int i=1000;i<=1500;i++){
  tone(3,i); //Buzzer ON
  delay(10);
  }
}
}
```

### **SERIAL MONITOR**

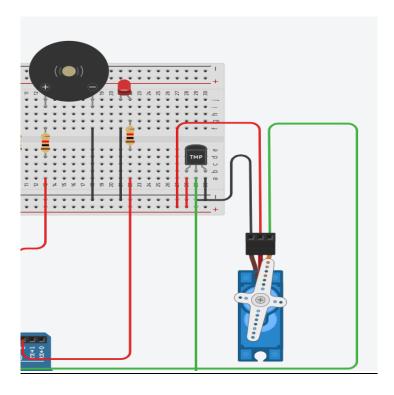


Temperature is 24.71 Temperature is 24.71 Temperature is 67.68 HIGH TEMPERATURE 110.64 HIGH TEMPERATURE 110.64 Temperature is 7.13 MOTION DETECTED Temperature is 7.13

Temperature is 7.13 Temperature is 7.13



## IF TEMPERATURE IS ABOVE 100 DEGREE → Red led, Servomotor and Buzzer turns on



### IF MOTION IS DETECTED IN PIR SENSOR → Blue led and Buzzer turns on

