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Team ID	PNT2022TMID27152
ProjectName	Project-IoTBasedSafetyGadgetForChild SafetyMonitoring& Notification

SMART HOME

```
#include<Servo.h>

Servo s;

int t=2;

int e=3;

int l=11;


void setup()

{

pinMode(t,OUTPUT);

pinMode(e,INPUT);

pinMode(l,OUTPUT);

pinMode(13,OUTPUT);

pinMode(4,INPUT);

s.attach(5);

Serial.begin(9600);

}


void loop()

{

//ultrasonic sensor  used to indicatate BULB glowing and Door open(servo motor)
```

```arduino
digitalWrite(t,1);

digitalWrite(t,0);

delayMicroseconds(10);

digitalWrite(t,0);

float dur=pulseIn(e,1);

float dis=(dur*0.0343)/2;

Serial.print("distance:");

Serial.println(dis);

if(dis>150){

digitalWrite(l,0);

s.write(180);

 }

else{

digitalWrite(l,1);

s.write(0);

 }


 //Temprature sensor

double a= analogRead(A0);

double t= (((a/1024)*5)-0.5)*100;

Serial.print("temprature value:");

Serial.println(t);

delay(1000);


if(t>100)

digitalWrite(13,1);

else
```

```
digitalWrite(13,0);

delay(1000);


//PIR sensor

digitalWrite(13,0);

int a1=digitalRead(4);

Serial.println(a);

if(a1==1){

Serial.println("motion detected:");

digitalWrite(13,1);

 }

delay(1000);

}
```