# APPENDIX:
## SOURCE CODE

```
#include
#include
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SoftwareSerial mySerial(8,9);// RX,TX
intflag=0;
Stringhbeat="";
 inta=50;
 floathr=0;
floatsp=0;
charch;
 Stringdata;
Stringwdata;
 Stringdata1="";
charcnct[10]=",CONNECT";
StringapiKey="VGHY5JI0P5LUOBJJ";
 inttcount=0;
intcount=0;
inth=0;
intv1=7;
intv2=6;
voidsetup()
 {
            Serial.begin(9600);
                pinMode(13,OUTPUT);
                pinMode(10,INPUT);
                pinMode(11,INPUT);
                mySerial.begin(115200);
                mySerial.print("AT\r\n");
                delay(1000);
                 mySerial.println("AT+RST");
                 pinMode(11,INPUT);
                 pinMode(10,INPUT);
                pinMode(v1,OUTPUT);
                 pinMode(v2,OUTPUT);
                digitalWrite(v1,1);
                digitalWrite(v2,1);
                 Serial.println("AT+CNMI=2,2,0,0,0");
                 digitalWrite(13,1);
                delay(700);
```

```
        digitalWrite(13,0)
        delay(700);
         digitalWrite(13,1);
         delay(700);
        digitalWrite(13,0);
        digitalWrite(v1,0);
         delay(200);
         digitalWrite(v1,1);
         delay(2000);


    }
intscount=0;
voidloop()
 {
        digitalWrite(13,0);
        if((digitalRead(11)==1)||(digitalRead(12)==1))
 {
        tcount++;
 }
if(count>12)
 {
        count=0;
 }
delay(1000);
if(tcount>10)
 {
        tcount=0;
        if(analogRead(A0)>3.8)
 {
        send_alert();
 }
digitalWrite(v2,0);
 delay(200);
 digitalWrite(v2,1);
 delay(2000);

StringgetStr="GET/update?api_key=";
getStr+=apiKey;
 getStr+="&field1=";
getStr+=String(analogRead(A0));
getStr+="\r\n\r\n";

cmd+=String(getStr.length())
```