#include <SoftwareSerial.h>

long pmcf10=0;

long pmcf25=0;

long pmcf100=0;

long pmat10=0;

long pmat25=0;

long pmat100=0;

char buf[50];

int count = 0;

unsigned char c, last\_c;

SoftwareSerial Sensor (2, 3); // 接收腳RX, 傳送腳TX

SoftwareSerial Blueteeth(10,9);

void setup() {

// put your setup code here, to run once:

Serial.begin(9600);

Blueteeth.begin(9600);

Sensor.begin(9600);

}

void loop() {

// put your main code here, to run repeatedly:

bool start = false;

unsigned char high;

while(Sensor.available())

{

last\_c = c;

c = Sensor.read();

if(last\_c == 0x42 && c == 0x4d)

{

count = 1;

}

if(count == 4 || count == 6 || count == 8 || count == 10 || count == 12 || count == 14)

{

high = c;

}

else if(count==5)

{

}

else if(count==7)

{

pmcf25 = 256\*high + c;

Serial.print("CF=1, PM2.5= : ");

Serial.print(pmcf25);

Serial.print(" ug/m3");

Serial.print("\t\t");

Blueteeth.println(pmcf25);

}

else if(count==9)

{

}

else if(count==11)

{

}

else if(count==13)

{

pmat25 = 256\*high + c;

Serial.print("atmosphere, PM2.5= : ");

Serial.print(pmat25);

Serial.println(" ug/m3");

}

else if(count==15)

{

}

if (count < 100) count++;

}

}