#include <SoftwareSerial.h> /\* Create object named SIM808 of the class SoftwareSerial \*/

#include <string.h>

SoftwareSerial SIM808(8,7);

String cmd;

#define DEBUG true

String response = "";

String dis;

char a[20];

char \*b;

int i=0;

void setup() {

Serial.begin(9600); /\* Define baud rate for serial communication \*/

SIM808.begin(9600); /\* Define baud rate for software serial communication \*/

init\_gps();

getgps();

}

void loop()

{

req\_gps( "AT+CGNSINF",1000,DEBUG);

data\_packets();

delay(500);

}

void init\_gps()

{

Serial.println("AT+SAPBR=3,1,\"Contype\",\"GPRS\"\\r\\n");

SIM808.println("AT+SAPBR=3,1,\"Contype\",\"GPRS\""); /\* Non-Transparent (normal) mode for TCP/IP application \*/

delay(5000);

ShowSerialData();

delay(5000);

Serial.println("AT+SAPBR=3,1,\"APN\",\"www\"\r\\n");

SIM808.println("AT+SAPBR=3,1,\"APN\",\"www\""); /\* Single TCP/IP connection mode \*/

delay(5000);

ShowSerialData();

delay(10000);

Serial.println("AT+SAPBR =1,1\\r\\n");

SIM808.println("AT+SAPBR =1,1"); /\* Attach to GPRS Service \*/

delay(5000);

ShowSerialData();

delay(10000);

Serial.println("AT+SAPBR=2,1\\r\\n");

SIM808.println("AT+SAPBR=2,1"); /\* Network registration status \*/

delay(5000);

ShowSerialData();

delay(10000);

Serial.println("AT+HTTPINIT\\r\\n");

SIM808.println("AT+HTTPINIT"); /\* Attached to or detached from GPRS service \*/

delay(10000);

ShowSerialData();

delay(5000);

Serial.println("AT+HTTPPARA=\"CID\",1\\r\\n");

SIM808.println("AT+HTTPPARA=\"CID\",1"); /\* Attached to or detached from GPRS service \*/

delay(5000);

ShowSerialData();

delay(2000);

}

void getgps(void){

req\_gps( "AT+CGNSPWR=1",1000,DEBUG);

req\_gps( "AT+CGPSINF=0",1000,DEBUG);

}

void req\_gps(String command, const int timeout, boolean debug){

SIM808.println(command);

delay(5);

if(debug){

long int time = millis();

while( (time+timeout) > millis()){

while(SIM808.available()){

if(SIM808.find(".000,"))

response = SIM808.readString();

}

}

response.toCharArray(a, 20);

//Serial.print("LONG/LAT:--");

// Serial.print(a);

strtok\_r (a, ",", &b);

}

}

void data\_packets(void)

{

Serial.println("AT+HTTPPARA=\"CID\",1\\r\\n");

SIM808.println("AT+HTTPPARA=\"CID\",1"); /\* Attached to or detached from GPRS service \*/

delay(5000);

ShowSerialData();

delay(2000);

//http://my-demo.in/parentchild/request.aspx?l1=23.45454&l2=34.54654

String getStr = "AT+HTTPPARA=\"URL\",\"http://my-demo.in/parentchild/request.aspx?";

getStr +="l1=";

getStr += String(a);

getStr +="&l2=";

getStr += String(b);

getStr +="\"";

Serial.println(getStr);

SIM808.println(getStr); /\* Attached to or detached from GPRS service \*/

delay(2000);

ShowSerialData();

delay(10000);

Serial.println("AT+HTTPACTION=0\\r\\n");

SIM808.println("AT+HTTPACTION=0"); /\* Attached to or detached from GPRS service \*/

delay(5000);

ShowSerialData();

delay(2000);

}

void ShowSerialData()

{

while(SIM808.available()!=0) /\* If data is available on serial port \*/

Serial.write(char (SIM808.read())); /\* Print character received on to the serial monitor \*/

}