#include <LiquidCrystal.h>

// initialize the library with the numbers of the interface pins

LiquidCrystal lcd(12, 11, 7, 6, 5, 4);

char \*on="on", \*of="of";

char dummy;

int relpin=2;

// give the pin a name:

int led = 9, check=8;

// incoming serial byte

int inByte, i=0;

char compare[4], norm[]={'o','n','\0'}, nofm[]={'o','f','\0'};

int count=0, flag=0;

void setup()

{

pinMode(9, OUTPUT);

pinMode(8, OUTPUT);

pinMode(2, OUTPUT);

lcd.begin(16, 2);

lcd.print("HOME AUTOMATION");

lcd.setCursor(0, 1);

lcd.print(" VIA GSM ");

delay(1000);

// initialize the led pin as an output.

pinMode(led, OUTPUT);

// start serial port at 9600 bps

Serial.begin(9600);

// wait for a while till the serial port is ready

delay(100);

// send the initial data once //

Serial.print("AT+CMGF=1\n\r");

delay(500);

Serial.print("AT+CNMI=2,2,0,0,0\n\r");

delay(2000);

digitalWrite(led, HIGH);

}

void loop()

{

do

{

while ( !Serial.available() );

} while ( '"' != Serial.read() );

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} while ( '"' != Serial.read() );

while ( !Serial.available() );

inByte = Serial.read();

while ( !Serial.available() );

inByte = Serial.read();

lcd.clear();

while(1)

{

while ( !Serial.available() );

inByte = Serial.read();

if ( inByte == '\r' )

break;

else;

lcd.write ( inByte );

i=i+1;

}

if(i==2)

{

digitalWrite(check,HIGH);

//lcd.print(i);

}

else if(i==3)

{

digitalWrite(check, LOW);

//lcd.print(i);

}

else;

i=0;

}