#include <SoftwareSerial.h>

SoftwareSerial serial(3, 2); // RX digital pin 3, TX digital pin 2.

void setup()

{

pinMode(4,OUTPUT);

digitalWrite(4,0);

Serial.begin(9600);

Serial.println("\*\*\*\*\*\*INITIALIZING SYSTEM\*\*\*\*\*\*");

serial.begin(9600); //Baud rate of the GSM/GPRS Module

serial.println("AT+CMGF=1\r");

updateSerial();

delay(100);

//serial.println("AT+CMGR=1\r");//Read SMS at location 1.

serial.println("AT+CNMI=2,2,0,0,0\r"); //To read newly arrived SMS.

updateSerial();

delay(2000);

Serial.println("\*\*\*SYSTEM INITIALIZATION COMPLETE\*\*\*\n\n\n");

Serial.println("\*\*\*\*\*\*WAITING FOR COMMANDS FROM THE USER\*\*\*\*\*\*");

}

void loop()

{

if (serial.available() > 0)

{

int c = serial.read();

if (c == 'R' )

{

//Turn on pump

digitalWrite(4,1);

Serial.println("Pump On");

}

if (c == 'F' )

{

//Turn off pump

digitalWrite(4,0);

Serial.println("Pump off");

}

//Serial.write(c);

}

}

void updateSerial()

{

delay(500);

while (Serial.available())

{

serial.write(Serial.read());//Forward what Serial received to Software Serial Port

}

while(serial.available())

{

Serial.write(serial.read());//Forward what Software Serial received to Serial Port

}

}