```
//Program de conectare a monturii cu SkySafari

//sunt folosite 2 biblioteci diferite software serial deoarece softwareserial
//nu merge cu 2 porturi simultan. AltSoftSerial controleaza fluxul de date
//cu HC05 si SoftwareSerial cel cu adaptorul RS232-montura.
//HC-05 e configurat in mod "date" pt ca in mod "AT" nu am
//putea transmite caracterele "speciale" folosite de protocolul
//celestron
//Datele primite de la HC05 sunt trimise de skysafari si apoi
//sunt transmise pe portul monturii si invers



#include <AltSoftSerial.h>
#include <SoftwareSerial.h>


long comChannel=0;
long NrCharsReceived=0;
char CommandCh;

String inStrWIFI="";
String inStrCGEM="";
String inStr="";

#define rxCGEMpin 10
#define txCGEMpin 11
#define rxSKYSAFARIpin 8  //!  nu pot fi modificati! - AltSoftSerial functioneaza
numai cu pinii 8 si 9
#define txSKYSAFARIpin 9

AltSoftSerial  SKYSAFARIserial;//(rxSKYSAFARIpin, txSKYSAFARIpin);
SoftwareSerial  CGEMSerial(rxCGEMpin, txCGEMpin);

void setup() {


  Serial.begin(9600);
  while (!Serial) ;


  pinMode(rxCGEMpin, INPUT);
  pinMode(txCGEMpin, OUTPUT);
  pinMode(rxSKYSAFARIpin, INPUT);
  pinMode(txSKYSAFARIpin, OUTPUT);
  CGEMSerial.begin(9600);
  SKYSAFARIserial.begin(9600);
```

```
}

void loop() {


//primirea char de la montura
int innB;
char innC;
//CGEMSerial.listen();
while (CGEMSerial.available()) {
delay(1);  //delay necesar pt ca toate datele sa ajunga in buffer (CGEM trimite
datele destul de lent); pt alte monturi e posibil sa fie necesar sa fie ajustata
valoare
innC=CGEMSerial.read();

//Serial.println(innB);
//innC=(char)innB;

     if(CGEMSerial.available())
     {
       inStrCGEM += innC;
 //      .write(innC);
     }
     else
     {
//        Serial.write(innC);
        inStrCGEM += innC;

//Serial.println(inStrCGEM);
SKYSAFARIserial.print(inStrCGEM);
    //    Serial.print("De la
montura:");Serial.println(inStrCGEM);Serial.println(cSir);
        inStrCGEM="";
       // delay(10);
     }
}



//de la HC-05 / SkySafari
int inB;
char inC;
while(SKYSAFARIserial.available()){
delay(2);
inB=SKYSAFARIserial.read();
inC=(char)inB;
//Serial.write(inB);
     if(SKYSAFARIserial.available())
```

```
      {
        inStrWIFI += inC;
        //Serial.write(inC);
      }
      else
      {
         //  Serial.write(inC);
         inStrWIFI += inC;

         char firstChar=inStrWIFI.charAt(0);
         if(firstChar=='$')
          {
          // Serial.println("sfhgjh,jkhjkhkj");
            int ix=0;
            String realString="";
            while (firstChar=='$')
            {
             firstChar=inStrWIFI.charAt(ix);
             ix++;
            }
            realString=inStrWIFI.substring(ix-1, inStrWIFI.length());
            //Serial.println(realString);
            CGEMSerial.print(realString);
            inStrWIFI="";
          }
          else
          {
            //Serial.println(inStrWIFI);
            CGEMSerial.print(inStrWIFI);
            inStrWIFI="";
          }
        // decodeCommand(inStrWIFI);
      }
}

}
```