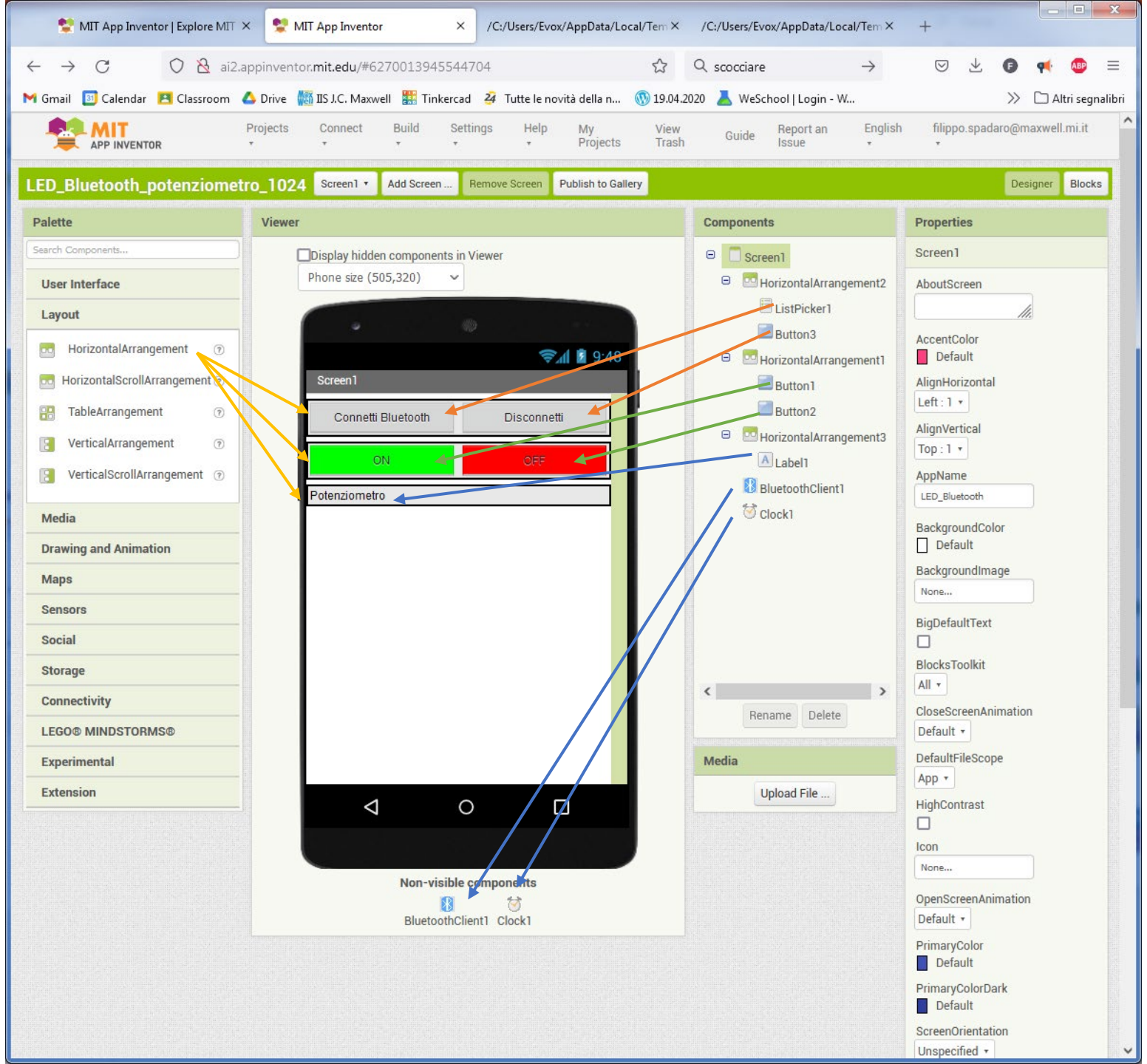
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Connect
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Help
My Projects
View Trash
Guide
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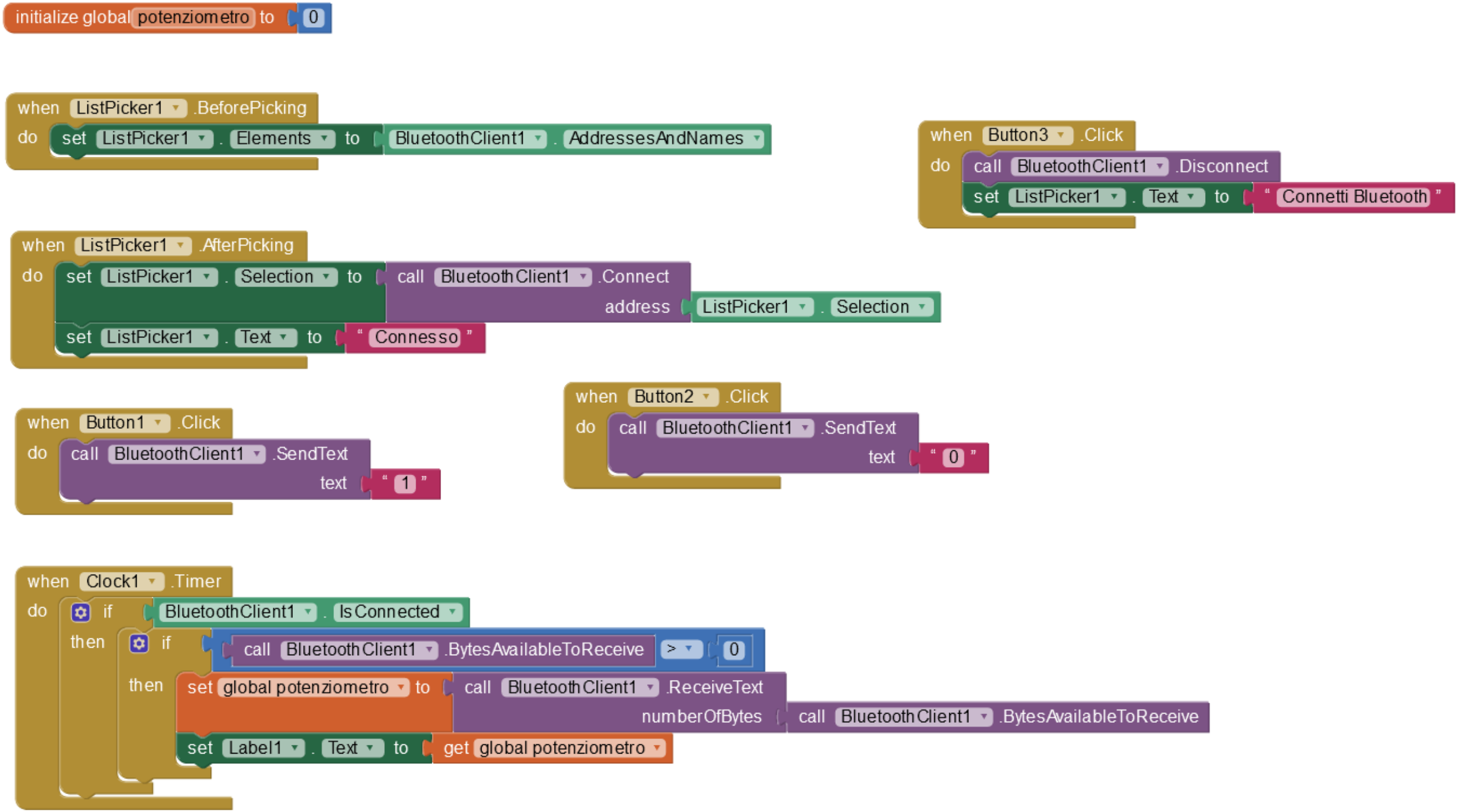
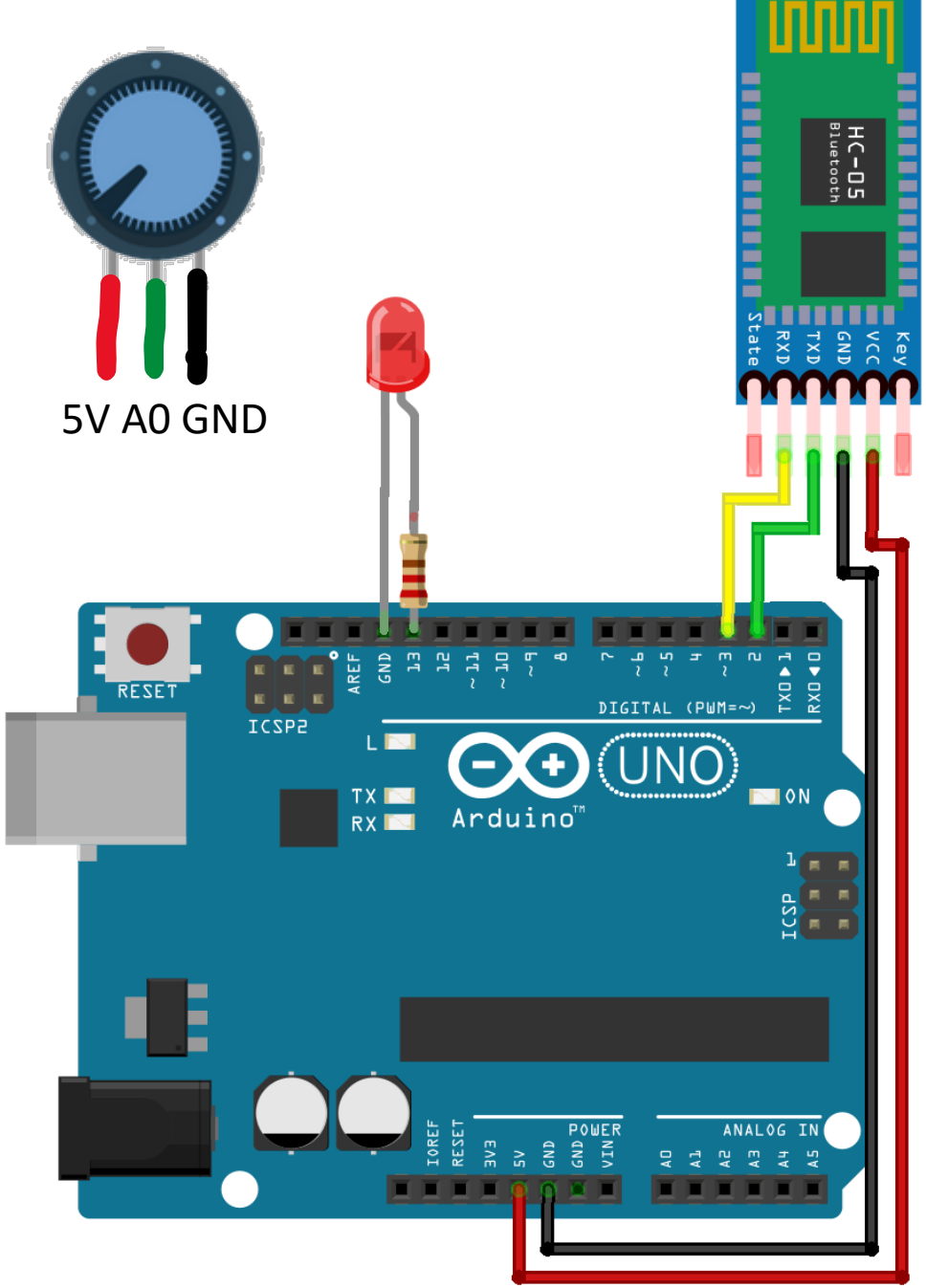
English
filippo.spadaro@maxwell.mi.it
LED_Bluetooth_potenziometro_1024
Screen1
Add Screen ...
Remove Screen
Publish to Gallery
Designer
Blocks
Palette
Search Components...
User Interface
Layout
HorizontalArrangement
HorizontalScrollArrangement
TableArrangement
VerticalArrangement
VerticalScrollArrangement
Media
Drawing and Animation
Maps
Sensors
Social
Storage
Connectivity
LEGO® MINDSTORMS®
Experimental
Extension
Viewer
Display hidden components in Viewer
Phone size (505,320)
Screen1
Connetti Bluetooth
Disconnetti
ON
OFF
Potenziometro
Non-visible components
BluetoothClient1
Clock1
Components
Screen1
HorizontalArrangement2
ListPicker1
Button3
HorizontalArrangement1
Button1
Button2
HorizontalArrangement3
Label1
BluetoothClient1
Clock1
Rename
Delete
Media
Upload File ...
Properties
Screen1
AboutScreen
AccentColor
Default
AlignHorizontal
Left : 1
AlignVertical
Top : 1
AppName
LED_Bluetooth
BackgroundColor
Default
BackgroundImage
None...
BigDefaultText
BlocksToolkit
All
CloseScreenAnimation
Default
DefaultFileScope
App
HighContrast
Icon
None...
OpenScreenAnimation
Default
PrimaryColor
Default
PrimaryColorDark
Default
ScreenOrientation
Unspecified


initialize global potenziometro to 0
when ListPicker1 .BeforePicking
do set ListPicker1 . Elements to BluetoothClient1 . AddressesAndNames
when Button3 .Click
do call BluetoothClient1 .Disconnect
set ListPicker1 . Text to " Connetti Bluetooth "
when ListPicker1 .AfterPicking
do set ListPicker1 . Selection to call BluetoothClient1 .Connect
address ListPicker1 . Selection
set ListPicker1 . Text to " Connesso "
when Button2 .Click
do call BluetoothClient1 .SendText
text " 0 "
when Button1 .Click
do call BluetoothClient1 .SendText
text " 1 "
when Clock1 .Timer
do if BluetoothClient1 . IsConnected
then if call BluetoothClient1 .BytesAvailableToReceive > 0
then set global potenziometro to call BluetoothClient1 .ReceiveText
numberOfBytes call BluetoothClient1 .BytesAvailableToReceive
set Label1 . Text to get global potenziometro


5V A0 GND
HC-05
Bluetooth
State
RXD
TXD
GND
VCC
Key
RESET
ICSP2
AREF
GND
13
12
~11
~10
~9
8
7
~6
~5
4
~3
2
TX→1
RX←0
DIGITAL (PWM=~)
L
TX
RX
UNO
Arduino™
ON
ICSP
POWER
ANALOG IN
IOREF
RESET
3V3
5V
GND
GND
VIN
A0
A1
A2
A3
A4
A5

```
#include <SoftwareSerial.h>
#define intervallo 300  // intervallo per il millis

SoftwareSerial Bluetooth(2, 3); // RX, TX
char Incoming_value = 0;     // LED On = 1 / Off = 0
unsigned long tempo = 0;     // tempo precedente per il millis
String potenziometro;       // valore acquisito dal potenziometro dopo casting


void setup()
{
  Serial.begin(9600);     // seriale USB
  pinMode(13, OUTPUT);       //LED BuilT In
  Bluetooth.begin(9600); // set the data rate for the SoftwareSerial port
}
```

```
void loop()
{
  // gestione dati
  if ((millis()-tempo)>intervallo)
  {
  potenziometro = String(analogRead(A0));
  Bluetooth.println(potenziometro); // invia al Bluetooth
  Serial.print("potenziometro: ");
  Serial.println(potenziometro);
  tempo = millis();
  }

  // gestione LED On/Off
  if(Bluetooth.available() > 0)
  {
    Incoming_value = Bluetooth.read();
    Bluetooth.print("\n");
    if(Incoming_value == '1')
      digitalWrite(13, HIGH);
    else if(Incoming_value == '0')
      digitalWrite(13, LOW);
  }
}
```