Laboratorio_Gr3

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Chapter 1

File Index

1.1 File List

Here is a list of all files with brief descriptions:

Chapter 2

File Documentation

2.1   src/main.cpp File Reference

```
#include <Arduino.h>
```

Functions

- void setup ()
- void loop ()

Variables

- int buttom = 8
- int yellow = 2
- int green = 3
- int red = 4
- char rx
- int cont
- char bandera

2.1.1   Function Documentation

2.1.1.1 loop()

```
void loop ( )
```

Definition at line 19 of file main.cpp.

```
20 {
21   if (Serial.available() > 0)
22   {
23     rx = Serial.read();
24     switch (rx)
25     {
26     case 's':
27       digitalWrite(green,LOW);
28       digitalWrite(yellow,HIGH);
29       digitalWrite(red,LOW);
30       bandera='s';
31       break;
32
33       case 'r':
34       digitalWrite(green, HIGH);
35       digitalWrite(yellow, LOW);
36       digitalWrite(red, LOW);
37       bandera='r';
38       break;
39
40       case 'S':
41       Serial.write(cont);
42       digitalWrite(green,LOW);
43       digitalWrite(yellow,LOW);
44       digitalWrite(red,HIGH);
45       //Serial.write(cont);
46       cont=0;
47       bandera='S';
48       break;
49
50     default:
51       break;
52     }
53   }
54
55     else
56   {
57     if (bandera == 'r')
58     {
59       if(digitalRead(buttom) == HIGH)
60       {
61         cont++;
62       }
63       while(digitalRead(buttom) == HIGH)
64       {
65
66       }
67       while(digitalRead(buttom) == LOW)
68       {
69
70       }
71     }
72   }
73 }
```

2.1.1.2 setup()

```
void setup ( )
```

Definition at line 10 of file main.cpp.

```
10              {
11   // asignación de pines
12   pinMode(yellow,OUTPUT);
13   pinMode(red,OUTPUT);
14   pinMode(green,OUTPUT);
15   pinMode(buttom,INPUT);
16   Serial.begin(9600);
17 }
```

2.1.2 Variable Documentation

2.1.2.1 bandera

```
char bandera
```

Definition at line 8 of file main.cpp.

2.1.2.2 buttom

```
int buttom = 8
```

Definition at line 2 of file main.cpp.

2.1.2.3 cont

```
int cont
```

Definition at line 7 of file main.cpp.

2.1.2.4 green

```
int green = 3
```

Definition at line 4 of file main.cpp.

2.1.2.5 red

```
int red = 4
```

Definition at line 5 of file main.cpp.

2.1.2.6 rx

```
char rx
```

Definition at line 6 of file main.cpp.

2.1.2.7 yellow

```
int yellow = 2
```

Definition at line 3 of file main.cpp.