Laboratorio4

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Chapter 2

File Documentation

2.1 src/main.cpp File Reference

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

Functions

- void setup ()
- void loop ()

Variables

- int buttonPin = A5
- int PinYellow = 8
- int PinGreen = 9
- int PinRed = 10
- char intPin
- int cant
- char flag
- int state

2.1.1 Function Documentation

4 File Documentation

2.1.1.1 loop()

```
void loop ( )
```

Definition at line 22 of file main.cpp.

```
23 {
24
     // Se verifica si hay dato de entrada
25
     if (Serial.available() > 0)
26
          //Se lee el dato de entrada
27
          intPin = Serial.read();
28
29
30
          switch (intPin)
31
            case's':
32
              digitalWrite(PinRed, LOW);
digitalWrite(PinGreen, LOW);
digitalWrite(PinYellow, HIGH);
33
34
35
36
              flag = 's';
              break;
38
            case'r':
39
               digitalWrite(PinRed, LOW);
40
               digitalWrite(PinGreen, HIGH);
41
42
               digitalWrite(PinYellow, LOW);
               flag = 'r';
43
44
4.5
            case'S':
46
               Serial.write(cant);
47
               digitalWrite(PinRed, HIGH);
48
49
               digitalWrite(PinGreen, LOW);
50
               digitalWrite(PinYellow, LOW);
               flag = 'S';
cant = 0;
51
52
53
               break;
54
55
            default:
               digitalWrite(PinRed, LOW);
57
               digitalWrite(PinGreen, LOW);
58
               digitalWrite(PinYellow, LOW);
59
               break;
60
61
     }
62
     else
63
64
       if (flag == 'r')
65
            state = digitalRead(buttonPin);
if (state == 1)
66
67
68
69
              cant = cant + 1;
70
71
            while (digitalRead (buttonPin) ==1)
72
73
            while (digitalRead(buttonPin) == 0)
75
76
77
78
     }
79 }
```

2.1.1.2 setup()

void setup ()

Definition at line 12 of file main.cpp.

```
13 {
14    // Configuración de pines:
15    Serial.begin(9600);
16    in    pinMode(buttonPin, INPUT);
18    pinMode(PinYellow, OUTPUT);
19    pinMode(PinGreen, OUTPUT);
20    pinMode(PinRed, OUTPUT);
21 }
```

2.1.2 Variable Documentation

2.1.2.1 buttonPin
int buttonPin = A5
Definition at line 3 of file main.cpp.
2.1.2.2 cant
int cant
Definition at line 8 of file main.cpp.
2.1.2.3 flag
char flag
Definition at line 9 of file main.cpp.
2.1.2.4 intPin
char intPin
Definition at line 7 of file main.cpp.
2.1.2.5 PinGreen

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int PinGreen = 9

Definition at line 5 of file main.cpp.

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2.1.2.6 PinRed

int PinRed = 10

Definition at line 6 of file main.cpp.

2.1.2.7 PinYellow

int PinYellow = 8

Definition at line 4 of file main.cpp.

2.1.2.8 state

int state

Definition at line 10 of file main.cpp.