Lab_parte2.0

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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>
```

Macros

- #define pinLEDR 5
- #define pinLEDG 12
- #define pinLEDY 9
- #define PULSADOR 7

Functions

- void setup ()
- void loop ()

Variables

- int cont =0
- int stop =0
- int ready =1
- int start =2
- int bandera =0
- char ORD =0

2.1.1 Macro Definition Documentation

2.1.1.1 pinLEDG

```
#define pinLEDG 12
```

Definition at line 4 of file main.cpp.

2.1.1.2 pinLEDR

```
#define pinLEDR 5
```

Definition at line 3 of file main.cpp.

2.1.1.3 pinLEDY

```
#define pinLEDY 9
```

Definition at line 5 of file main.cpp.

2.1.1.4 PULSADOR

```
#define PULSADOR 7
```

Definition at line 7 of file main.cpp.

2.1.2 Function Documentation

2.1.2.1 loop()

```
void loop ( )
```

Definition at line 27 of file main.cpp.

```
27            {
28   /*if(digitalRead(PULSADOR)==HIGH){
29     digitalWrite(pinLEDR,HIGH);
30     }
31   else{
32     digitalWrite(pinLEDR,LOW);
33   }*/
34   //estado= digitalRead(PULSADOR);
35   if (Serial.available()>0){
36     //digitalWrite(pinLEDG,HIGH);
37     ORD=Serial.read();
38     switch(ORD){
39       case 'r':
40         digitalWrite(pinLEDR,LOW);
41         digitalWrite(pinLEDG,LOW);
42         digitalWrite(pinLEDY,HIGH);
43         bandera = ready;
44         break;
45       case 's':
46         digitalWrite(pinLEDR,LOW);
47         digitalWrite(pinLEDG,HIGH);
48         digitalWrite(pinLEDY,LOW);
49         bandera = start;
50
51       /*if(estado==HIGH){
52         digitalWrite(pinLEDY,HIGH);
53         cont++;
54       }
55       else{
56         digitalWrite(pinLEDY,LOW);
57         cont=cont;
58       }*/
59         break;
60
61       case 'S':
62         digitalWrite(pinLEDR,HIGH);
63         digitalWrite(pinLEDG,LOW);
64         digitalWrite(pinLEDY,LOW);
65         bandera = stop;
66         Serial.write(cont);
67         cont=0;
68         break;
69       }
70     }
71     else{
72       if(bandera==start){
73         if(digitalRead(PULSADOR)==HIGH){
74           cont=cont+1;
75         }
76           while(digitalRead(PULSADOR)==HIGH){
77           }
78           while(digitalRead(PULSADOR)==LOW){
79           }
80         //else{
81           //cont=cont;
82         //}
83       }
84     }
85
86
87     /*if (bandera=='start'){
88       digitalWrite(pinLEDY,HIGH);
89       if (digitalRead(PULSADOR)==HIGH){
90         digitalWrite(pinLEDY,HIGH);
91           cont++;
92         }
93       else{
94         digitalWrite(pinLEDY,LOW);
95         cont=cont;
96         }
97
98
99         cont=cont+1;
100      }*/
101  }
```

2.1.2.2 setup()

```
void setup ( )
```

Definition at line 18 of file main.cpp.

```
18              {
19
20   Serial.begin(9600);
21   pinMode(PULSADOR, INPUT);
22   pinMode(pinLEDG, OUTPUT);
23   pinMode(pinLEDY, OUTPUT);
24   pinMode(pinLEDR, OUTPUT);
25 }
```

2.1.3 Variable Documentation

2.1.3.1 bandera

```
int bandera =0
```

Definition at line 13 of file main.cpp.

2.1.3.2 cont

```
int cont =0
```

Definition at line 9 of file main.cpp.

2.1.3.3 ORD

```
char ORD =0
```

Definition at line 14 of file main.cpp.

2.1.3.4 ready

```
int ready =1
```

Definition at line 11 of file main.cpp.

2.1.3.5 start

```
int start =2
```

Definition at line 12 of file main.cpp.

2.1.3.6 stop

```
int stop =0
```

Definition at line 10 of file main.cpp.