```
1
2
    ______
    Laboratory : labo_01
 4
               : color.h
    Author(s)
 5
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              : 20.02.2020
 6
    Date
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8
              : Declare class Color and functions useful for it
    Purpose
    Remark(s) :
9
10
11
                   There is the github repository:
12
                   https://github.com/dgheig/Ba2-labo01
13
14
              : MinGW-g++ 6.3.0 and g++ 7.4.0
15
    -----*/
16
    #ifndef COLOR H
17
    #define COLOR_H
18
19
    #include <iostream>
20
    #include <string>
21
22
   class Color {
23
        public:
24
25
            enum class Code {
26
               WHITE,
27
               BLUE,
28
               GREEN,
29
               RED,
30
               BLACK
31
            };
32
33
            * @brief Create a color with a color by code (enum) or with nothing
34
35
             ^{\star} <code>@param</code> code default value WHITE
36
            * /
37
            Color(Code code = Code::WHITE);
38
39
            /**
            * @brief Get the color
40
            ^{\star} @return The code of the color (enum)
41
            */
42
43
            Code getColorCode() const;
44
            /**
45
            * @brief Change the color
46
            * @param code
47
            * @return The color
48
            */
49
50
            Color& setColor(Code code);
51
52
53
            * @brief Get the name of the color
54
            * @return The name of the color
55
56
            std::string getName() const;
57
58
            /**
59
            * @brief Display a color
60
             * @param stream
             * @return The srteam
61
             */
62
            std::ostream& display(std::ostream& stream = std::cout) const;
63
64
65
        private:
66
           Code mCode;
67
    };
68
69
70
     * @brief Convert the code color in a string
71
    * @param code
```

```
72
      * @return The color in string
73
74
    std::string toString(const Color::Code& code);
75
76
     /**
77
     * @brief Overload of the output sream to display a color
78
     * @param stream
79
     * @param color
80
     * @return The stream
81
82
     std::ostream& operator<<(std::ostream& stream, const Color& color);</pre>
83
     #endif // COLOR_H
84
85
```