```cpp
/*
* CMPE244 Lab Assignment 1
* Hardware LED Switch
*
* File    : LAB_GPIO1.hpp
* Author  : Harmeen Joshi
* Date    : 09/04/2018
*/
#ifndef LAB_GPIO1_HPP_
#define LAB_GPIO1_HPP_

//#include "LPC17xx.h"
#define STACK_SIZE 1024

struct pin_info {
    LPC_GPIO_TypeDef *LPC_GPIO;
    uint32_t pin_number;
};

class LabGPIO_1
{
private:
    struct pin_info *pin_selected;
public:
    LabGPIO_1(struct pin_info *);

    void setAsInput();
    void setAsOutput();
```

```cpp
    void setDirection(bool output);

    void setHigh();

    void setLow();

    void set(bool high);

    void toggle();

    bool getLevel();


    ~LabGPIO_1();
};


#endif /* LAB_GPIO1_HPP_ */
```