# Document Name:

**LAMP\_MODULE\_SWS\_V01**

# Functionality:

* Initializing The Lamp Pins Direction at which the Lamp is connected at
* Setting the LAMP (LED) status to be ON/OFF

# Configuration Parameters:

1. LAMP PORT

Defining the Port at which the lamp is connected at

#define LAMP\_PORT “A”

1. LAMP PIN

Defining the Pin at which the lamp is connected at

#define LAMP\_PIN 8

1. LAMP MODE

Defining the mode for the lamp whether it’s ACTIVE\_HIGH or ACTIVE\_LOW

#define LAMP\_MODE ACTIVE\_HIGH

1. LAMP status

Defining the status of the Lamp (LED) whether it’s ON/OFF

#define LAMP\_ON 1

#define LAMP\_OFF 0

# API’s:

1-

|  |  |
| --- | --- |
| **API Prototype** | ERROR\_STATUS lamp\_Init(void); |
| **Description** | This API is responsible for Initializing the pins direction at which the lamp is connected at using an API from the GPIO Module called : GPIO\_Init(LAMP\_PORT,LAMP\_PIN,LAMP\_MODE); |
| **Input Parameters** | Void |
| **Output Parameters** | Error\_S {OK = 1, NOK = 0} |

2-

|  |  |
| --- | --- |
| **API Prototype** | ERROR\_STATUS lamp\_Update (u8 status); |
| **Description** | This API is responsible for Setting the LAMP (LED) status to be ON/OFF using an API from the GPIO Module called : GPIO\_writePin(LAMP\_PORT,LAMP\_PIN,LAMP\_ON); |
| **Input Parameters** | Void |
| **Output Parameters** | Error\_S {OK = 1, NOK = 0} |