Lyra API Documentation

GPIO

GPIO is controlled with the following API calls:

GPIO_Init()

- Description: Initializes a GPIO port pin to be general purpose Output or Input.
- Parameters :
 - GPIOx GPIO controller to be initialized. Accepts 0, 1 or GPIOA, GPIOB
 - Pin Pin to be configured
 - Direction OUT / IN
- Return :
 - Returns 0 on successful configuration.
 - Returns −1 on invalid argument input

GPIO_SetPin()

- Description: Writes a digital HIGH to GPIO Pin configured as Output.
- Parameters :
 - GPIOx GPIO controller. Accepts 0, 1 or GPIOA, GPIOB
 - Pin Pin to be written
- Return :
 - Returns 0 on successful configuration.
 - Returns -1 on invalid argument input

- Description: Writes a digital LOW to GPIO Pin configured as Output.
- Parameters :
 - GPIOx GPIO controller. Accepts 0, 1 or GPIOA, GPIOB
 - Pin Pin to be written
- Return :
 - Returns 0 on successful configuration.
 - Returns -1 on invalid argument input

GPIO_TogglePin()

- **Description**: Toggles the specified Pin (configured as Output) from last configured output state.
- Parameters :
 - GPIOx GPIO controller. Accepts 0, 1 or GPIOA, GPIOB
 - Pin Pin to be toggled
- Return :
 - Returns 0 on successful configuration.
 - Returns -1 on invalid argument input

GPIO_ReadPin()

- **Description**: Reads the data for pin configured as digital Input.
- Parameters :
 - GPIOx GPIO controller. Accepts 0, 1 or GPIOA, GPIOB
 - Pin Pin to be toggled
- Return :

- Returns 1 for a a logical HIGH.
- Returns 0 for a logical LOW.
- Returns -1 for invalid argument input