

	TESTER NAME: Khaled Mustafa	PROJECT: Cape stone project - Moving car	TEST PURPOSE: Testing DIO and LED modules		
	TEST DATE: 2023/04/13	BUILD ID: v1.0			
Step #	Test Step	Expected Result	Actual Result	Pass/Fail	Defect ID(s)
Function name: DIO_Init					
1	Selecting invalid port number.	The function should exit and return DIO_PORT_INVALID	DIO_PORT_INVALID	Pass	
2	Selecting valid port number.	The function should initialize the pin and exit with DIO_SUCCESS status.	DIO_SUCCESS	Pass	
Function name: DIO_ReadPin					
3	Selecting invalid port number.	The function should exit and return DIO_PORT_INVALID	DIO_PORT_INVALID	Pass	
4	Selecting valid port number.	The function should exit and return DIO_SUCCESS	DIO_SUCCESS	Pass	
5	Reading from an output pin.	The function should exit and return DIO_DIRECTION_INVALID	DIO_DIRECTION_INVALID	Pass	
Function name: DIO_WritePin					
6	Selecting invalid port number.	The function should exit and return DIO_PORT_INVALID	DIO_PORT_INVALID	Pass	
7	Selecting valid port number.	The function should exit and return DIO_SUCCESS	DIO_SUCCESS	Pass	
8	Reading from an output pin.	The function should exit and return DIO_DIRECTION_INVALID	DIO_DIRECTION_INVALID	Pass	
Function name: DIO_TogglePin					
9	Selecting invalid port number.	The function should exit and return DIO_PORT_INVALID	DIO_PORT_INVALID	Pass	
10	Selecting valid port number.	The function should exit and return DIO_SUCCESS	DIO_SUCCESS	Pass	
11	Toggle an input pin.	The function should exit and return DIO_DIRECTION_INVALID	DIO_DIRECTION_INVALID	Pass	
Function name: LED_Init					
12	Passing invalid port number.	The initializaiton of the pin would be invalid and return LED_FAILED	LED_FAILED	Pass	
13	Success in the initialization of LED pin.	The function should exit and return LED_SUCCESS	LED_SUCCESS		
Function name: LED_On					
14	Selecting invalid port number.	The function should exit and return LED_PORT_INVALID	LED_PORT_INVALID	Pass	
15	Success in the turning on LED.	The function should exit and return LED_SUCCESS	LED_SUCCESS	Pass	
Function name: LED_Off					
16	Selecting invalid port number.	The function should exit and return LED_PORT_INVALID	LED_PORT_INVALID	Pass	
17	Success in the turning on LED.	The function should exit and return LED_SUCCESS	LED_SUCCESS	Pass	