main class	
Function	Description
MX_I2C2_Init(void)	Initializes the I2C communication port, lines and respective
	pins. I2C Channel 2 used to communicate with the Ambient
	Light Sensor with port B, pin 11 as the SDA line & port B, pin
	10 as the SCL line
MX_GPIO_Init(void)	Initializes the GPIO Configuration. GPIO port C, pin 15 set to
	output mode.
MX_ADC_Init(void)	Initializes the ADC Configuration. Port C, pin 15 configured
	to ADC input
SystemClock_Config(void)	Configuration of the system clock.
MX_TIM2_Init(void)	Initializes the Timer Configuration channels for PWM
	generation. Port A, pin 1 used to generate pwm signal.
MX_USART1_UART_Init(void)	Initializes the USART Configuration. Port A, pin 10 set to Rx
	line & port A, pin 9 set to Tx line.
debugPrintln(UART_HandleTypeDef	This function is used to send text data to the USB-COM port
*uart_handle, char _out[]) : void	of the computer via the debug adapter. It has the following
	attributes: a pointer to the UART instance to write data, the
	output string in the form of a char and also it terminates the
	string using newline and carriage return commands.
main(void)	Houses and allows for execution of other functions. Allows
	for modulation within the code structure, improving
	debugging capabilities.
Error_Handler(void)	This function is executed in case of error occurrence.
assert_failed(uint8_t *file, uint32_t	User can add his own implementation to report the file
line)	name and line number.