

Function name: Motor_init			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
	Output	-----	
	Input/Output	-----	
Return	E_OK	0	
	E_NOK	1	
Description	Setting initial conditions for motors		

Function name: Motor_start			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
	Output	-----	
	Input/Output	-----	
Return	E_OK	0	
	E_NOK	1	
Description	Let motors start		

Function name: Motor_stop			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
	Output	-----	
	Input/Output	-----	
Return	E_OK	0	
	E_NOK	1	
Description	Let motors stop		

Function name: DIO_init			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
		H_bridge_num	Type:int
		Description: carry the number of the H bridge that we want to give order to.	
		selection	Type:string
	Description: select which module to control.		
	Output	-----	
Input/Output	-----		
Return	E_NOK	1	
	E_OK	0	
Description	Setting initial conditions for DIO		

Function name: DIO_read			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
		H_bridge_num	Type:int
		Description: carry the number of the H bridge that we want to give order to.	
		selection	Type:string
		Description: select which module to control.	
	Output	Data_read (pointer)	
	Input/Output	-----	
Return	E_NOK	1	
	E_OK	0	
Description	Read from selected pins		

Function name: DIO_write			
Arguments	Input	Motor_num	Type: int
		Description: carry the number of the motor that we want to give order to.	
		H_bridge_num	Type:int
		Description: carry the number of the H bridge that we want to give order to.	
		selection	Type:string
	Description: select which module to control.		
	Output	-----	
	Input/Output	Data_write (int)	
Return	E_NOK	1	
	E_OK	0	
Description	Write on the selected pins for DIO		

Function name: LCD_init		
Arguments	Input	_____
	Output	_____
	Input/Output	_____
Return	E_NOK	1
	E_OK	0
Description	Setting initial conditions for LCD	

Function name: LCD_Display			
Arguments	Input	direction	Type: string
		Description: carry the direction that robot move in.	
	Output	-----	
	Input/Output	-----	
Return	E_NOK	1	
	E_OK	0	
Description	Take the direction and display it		

Function name: RobotControl_init		
Arguments	Input	_____
	Output	_____
	Input/Output	_____
Return	E_NOK	1
	E_OK	0
Description	Setting initial conditions for RobotControl	

Function name: RobotControl_Start			
Arguments	Input	direction	Type: string
		Description: carry the direction desired.	
	Output	-----	
	Input/Output	Direction	
Return	E_NOK	1	
	E_OK	0	
Description	To start controlling robot movement from H brige as unit		

Function name: RobotControl_Stop			
Arguments	Input		
		Stop_move	Type:bool
		Description: to stop move.	
	Output	-----	
	Input/Output	Stop_move	
Return	E_NOK	1	
	E_OK	0	
Description	To stop moving of the robot		

Function name: PWM_init		
Arguments	Input	-----
	Output	-----
	Input/Output	Timer_numer_HWkit
Return	E_NOK	1
	E_OK	0
Description	Setting initial conditions for PWM	

Function name: PWM_Start			
Arguments	Input	Motor_num	Type: int
		Description: motor number to send data to	
		H_bridge_num	Type:int
		Description: carry the number of the H bridge that we want to give order to.	
		speed	Type:float
		Description: select desired speed.	
	Output	-----	
	Input/Output	Motor num/ H_bridge_num	
Return	E_NOK	1	
	E_OK	0	
Description	To start PWM signal		

Function name: PWM_Stop			
Arguments	Input	Motor_num	Type: int
		Description: motor_number to send data	
		H_bridge_num	Type:int
		Description: carry the number of the H bridge that we want to give order to.	
	Output	-----	
	Input/Output	Motor_num/ H_bridge_num	
Return	E_NOK	1	
	E_OK	0	
Description	To stop PWM signal		

Function name: Timer_init		
Arguments	Input	-----
	Output	-----
	Input/Output	Timer_numer_HW_kit
Return	E_NOK	1
	E_OK	0
Description	Setting initial conditions for Timer	

Function name: Timer_Start			
Arguments	Input	duration	Type: float
		Description: carry the desired duration in seconds	
	Output	-----	
	Input/Output	Current_value	
Return	E_NOK	1	
	E_OK	0	
Description	To start timer with certain value and returns the current value		

Function name: Timer_Stop			
Arguments	Input	Current_value	Type: float
		Description: carry the current value	
	Output	-----	
	Input/Output	Current_value	
Return	E_NOK	1	
	E_OK	0	
Description	To stop timer and returns the current value		