Function name: Motor_init			
Arguments	Input	Motor_num	Type: int
		Description: carry the motor that we 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 motor that w 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 motor that we order to.	
	Output		
	Input/Output		
Return	E_OK	0	
	E_NOK	1	
Description	Let motors stop		

Arguments	Innut	Motor num	Type: int
Arguments	Input	Motor_num	Type. IIIt
		_	ry the number of
		the motor that v order to.	ve want to give
		H_bridge_num	Type:int
		_	ry the number of twe want to give
		order to.	
		selection	Type:string
		Description: sele	ect which module
	Output		
	Input/Output		
Return	E_NOK	1	
	E_OK	0	
Description	Setting initial conditions	for DIO	

Function name: DIO_I	Function name: DIO_read			
Arguments	Input	Motor_num	Type: int	
		Description: carry the motor that wo order to.		
		H_bridge_num	Type:int	
		Description: carry the H bridge that order to.		
		selection	Type:string	
		Description: select to control.	t which module	
	Output	Data_read (point	er)	
	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: car the motor that order to.	ry the number of we want to give
		H_bridge_num	Type:int
		·	ry the number of at we want to give
		selection	Type:string
		Description: seleto control.	ect which module
	Output		
	Input/Output	Data_write (int)	
<mark>Return</mark>	E_NOK	1	
	E_OK	0	
Description	Write on the selected p	Write on the selected pins for DIO	

Function name: LCD_init		
Arguments	Input	
	Output	
	Input/Output	
	πραζ σατρατ	
<mark>Return</mark>	E_NOK	1
	E_OK	0
Description	Setting initial conditions for LCD	

Function name: LCD_Display			
Arguments	Input	direction	Type: string
		Description: carry that robot move	
	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	
<mark>Return</mark>	E_NOK	1
	E_OK	0
Description	Setting initial conditions for RobotControl	

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

Function name: RobotControl_update			
Arguments	Input	Argentcase (type:u8)
		Decrease_speed_ob	Type:u8
		turnright_ob	Type:u8
		New_direction	Type: string
		Description: new dir	ection
	Output		
	Input/Output	New_direction/ Dec turnright_ob/argent	
Return Return	E_NOK	1	
	E_OK	0	
Description	To give new direction of robstacle cases.	moving of the robot and to de	al with different

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

Function name: P	WM_Start			
Arguments	Input	Motor_num	Type: int	
		Description: mo data to	tor number to send	
		H_bridge_num	Type:int	
			Description: carry the number of the H bridge that we want to give order to.	
		speed	Type:float	
		Description: sele	Description: select desired speed.	
		Ultrasonic	Type:u8	
		To pass the sign sensor	al to ultrasonic	
	Output			
	Input/Output	Motor num/ H_	bridge_num	
Return	E_NOK	1	1	
	E_OK	0		
Description	To start PWM signal	1		

Function name: PWM_Stop				
Arguments	Input	Motor_num	Type: int	
		Description: moto data	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_b	m/ H_bridge_num	
<mark>Return</mark>	E_NOK	1	1	
	E_OK	0		
Description	To stop PWM signal	1		

Function name: Timer_init			
Arguments	Input	Timer mode(type :u8)	
	Output		
	Input/Output		
		Timer_numer_HW_kit	
Return	E_NOK	1	
	E_OK	0	
Description	Setting initial conditions for Time	er	

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_reset				
Arguments	Input	new_value	Type: float	
		Description: carry the current value		
	Output			
	Input/Output	new _value		
Return Return	E_NOK	1		
	E_OK	0		
Description	To stop timer or reset it and returns the current value			

Function name: Ultrasonic_init			
Arguments	Input	Second_alert_distance First_alert_distance	
	Output		
	Input/Output		
Return	E_NOK	1	
	E_OK	0	
Description	Setting initial conditions for Timer		

Function name: ultrasonic_distanecePhase			
Arguments	Input		
	Output		
	Input/Output	distance	
Return	E_NOK	1	
	E_OK	0	
Description	To detect distance		

