

#Number	Function Name	Function Inputs	Function Discription	Expected Output	Tested Output	Passed
1	DIO_init	0, PORT_A, IN	Initialize dio direction	low on pin0 DDRA	low on pin0 DDRA	TRUE
2	DIO_init	0, PORT_A, OUT	Initialize dio direction	high on pin0 DDRA	high on pin0 DDRA	TRUE
3	DIO_write	0, PORT_A, LOW	Write data to dio	low on pin0 PINA	low on pin0 PINA	TRUE
4	DIO_write	0, PORT_A, HIGH	Write data to dio	high on pin0 PINA	high on pin0 PINA	TRUE
5	DIO_toggle	0, PORT_A	Toggle dio	toggle pin0 PINA	toggle pin0 PINA	TRUE
6	DIO_read	0, PORT_A, &value	Read dio	value contains the state of pin0 PINA	value contains the state of pin0 PINA	TRUE
7	LED_init	PORT_B, 1	Initialize LED	high on pin1 DDRB	high on pin1 DDRB	TRUE
8	LED_on	PORT_B, 1	Turn on the LED	high on pin1 PINB	high on pin1 PINB	TRUE
9	LED_OFF	PORT_B, 1	Turn off the LED	low on pin1 PINB	low on pin1 PINB	TRUE
10	LED_toggle	PORT_B, 1	Toggle the LED	toggle pin1 PINB	toggle pin1 PINB	TRUE
11	BUTTON_init	BUTTON_1_PORT, BUTTON_1_PIN	Initialize button	low on pin2 DDRC	low on pin2 DDRC	TRUE
12	BUTTON_read	BUTTON_1_PORT, BUTTON_1_PIN, &value	Read button	value contains the state of pin2 PINC	value contains the state of pin2 PINC	TRUE
13	TIMER_init	void	Initialize timer	low on TCCR0 and TCNT0	low on TCCR0 and TCNT0	TRUE
14	DELAY_5_sec	void	Delay 5 seconds	stop watch = 5,000,000 us	stop watch = 5,000,049	Acceptable
15	DELAY_1_sec	void	Delay 1 second	stop watch = 1,000,000 us	stop watch = 1,000,048	Acceptable