



Computer Systems Engineering I

HW Lab 1

Assignment 1:

Connect the button according to the wiring diagram and write a function that returns the value.
`void ReadButton(unsigned int *nButton).`

Assignment 2:

Connect a LED and write a function that can turn on and off the LED.
`void Set_Led(unsigned int nLed)`

Assignment 3:

Write a program that turn on the LED when the button is pressed and off when the button is released.

Assignment 4:

Write a function that initialize and start the SysTick timer with interrupts. Write a program that use the timer to blink the LED.

Assignment 5:

Write a function that initializes the hardware interrupt so when the button is pressed an interrupt should occur. This interrupt should be solved without bouncing. Write a program that start and stop the blinking. By pressing ones it should start and one more should stop the blinking.