Embedded Software Development

Homework 01

Deadline: October 16, 2024 (Hard deadline by law: end of repetition week)

1.)

Must to do part of the homework:

Use the PushButtons and LEDs at the register level based on the approach learnt during the practices.

LED0 is OFF as default, and PushButton0 is used to set the strength of lightness of LED0. As PushButton0 is kept pushed (pushed more than once) the strength is increased in steps. When the max lightness is reached then at the next push on PushButton0 will set LED0 OFF then at next push the lightness is set to minimum and the lightness increment restarted.

LED1 is always ON when LED0 is OFF except the case when PushButton1 is pushed.

2.)

Optional part of the homework:

Use the Touch Slider and LEDs at the register level based on the approach learnt during the practices.

When the left side of the Touch Slider is touched the LED on the left should turn ON, when the right side of the Touch Slider is touched the LED on the right should turn ON.