

Midterm #2

Due: Friday, November 17 – by 4:10 PM (Before Class)
Submission: Media Recording and File Uploads to Carmen

This quiz is individual work.

Part 1: Coding task – 1-2-3 Count with me

Your program will start with both LEDs off and wait for a push button to be pressed.

As you press S1, both LEDs on your board will blink an increasing number of times. After your first press the LEDs will blink once; after your second press the LEDs will blink twice; after your third press the LEDs will blink three times, and so on. The state will be reset when you press S2. Please watch the short demo video posted to Carmen exhibiting the desired behavior.

Use a call to following subroutine between blinks

```
delay:
    push    R10
    mov.w   #0xFFFF, R10

countdown:
    dec.w   R10
    nop
    jnz     countdown

    pop     R10
    ret
```

Part 2: Submission – Media Recording, PDF and text files uploaded to Carmen

Media Recording:

Take a short video **of yourself and your program in action.**

Carmen will do the recording, **do not forget to hit the submit button!**

PDF File: Screenshot of your code

Take a screenshot of your main program (including variable definitions) and your ISR and submit in a PDF file

Text File: Your source code

Save the final version of your source code as txt file so it can be read in Carmen, and make sure that both files reflect your name, e.g., `firstname_lastname.txt` or `name_number.txt`.

Make sure to submit the correct source code in the correct format – no word or PDF files for source codes. I will randomly select and run source code files throughout the semester. If your source code file does not produce the results you demonstrate in your video you will receive zero points for the assignments – end of story.

Submit your video and files to Carmen before class on Friday November 17, 2023.

Happy Thanksgiving 🦃