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CS 210

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**Summary of project**

ChadaTech has both domestic and international clients as is looking for a way for their clients to view 12- and a 24- hour clock on their website. The project I was tasked with is the creation of two clocks that will display simultaneously. To do this, I will apply C++ code to build an efficient and secure clock program that will allow user input for initial time as well as add hour(s), minute(s) and, second(s).

**What did you do particularly well?**

My code in this project follows flowchart logic in relation to the format’s sequence of functions and effectively includes functions and the clock produces correct results.

**Where could you enhance your code? How would these improvements make your code more efficient, secure, and so on?**

I could enhance my code by ensuring that not just the 12-hour format was shown but the 24-hour format was also displayed. I also could fix it so that when the user can add hour(s), minute(s), and second(s), it reached a capacity where it would reset; in my code, adding 1 to 59 should return to be 1:00.

**Which pieces of the code did you find most challenging to write, and how did you overcome this? What tools or resources are you adding to your support network?**

I am still very novice with coding so incorporating multiple files and ensuring the correct code implementation was where it needed to be was a little perplexing for me. I used online forums and youtube videos to help point me in the right direction when I was feeling utterly lost with why my files were not readable/extracting properly.

**What skills from this project will be particularly transferable to other projects or course work?**

This project was the tip of the iceberg for what I need practice with. It was a great introduction to incorporating languages into code, reading files, and just how essential organization and problem-solving (going through the code multiple times to fix highlighted errors).

**How did you make this program maintainable, readable, and adaptable?**

The project was made maintainable, readable, and adaptable by keeping it simple with clear and readable functions/variables/classes with in-line comments to provide context and explanation and proper whitespace so that the reader can easily interpret and enhance the code in the future.