Credit Name: CSE 2140 2nd language programming
Assignment Name: Chapter 3 task 2 Digits

Understanding the Problem

How did you approach understanding the challenge? Were there any parts of the problem you found confusing at first? If so, how did you resolve that confusion?

The first thing I have done to understand the challenge was read the textbook to see what types of code I would need to apply to the task. Another thing that I did that helped me understand the project was using the skillbuilders because the skillbuilder was almost similar to the mastery task. Practicing with the skillbuilder helped me understand and make the mastery code easier to do. Some parts that were confusing was splitting the digits into different numbers because when the program was doing division it would give me decimals or do nothing with the answer that was outputted. I resolved this problem by going back into the skillbuilders and then going to Chatgpt to figure out how to use the remainders to get it divided again. The % symbol gets the remainder out and using that will help get the rest of the digits.

Planning the Solution

Did you create a plan or break the problem into smaller steps before coding? How did you decide on the tools, data structures, or algorithms to use?

My plan was to make it so that the application would split the numbers so in my head I thought of numbers that would easily split my numbers. I decided on 10 and at first it gave decimal but I checked the textbook and chatgpt to work my way around it.

Implementation

Did you write the code in small pieces or attempt the entire solution at once? How did you test your solution along the way to make sure it was working?

I wrote the code in small pieces because I wanted to know which steps were harder than the other ones because learning how to do them and understanding my mistakes would allow me to apply the same code without getting any error the next time I do it. After every line of code I would test it to know if it was working and went how I wanted it to be. An example of this was when I was doing the digits application I made sure to check if the code worked every time a number gets separated from its place value. Doing this helped me reduce the size of error I end up making.

Overcoming Challenges
What part of the problem was the most difficult for you? How did you handle moments when you felt stuck or unsure of what to do next?

The computer science difficulty was when the code was not outputting the correct digit placement and it was just giving random numbers because there was no % sign on it. I asked a friend and went through the book to get the answer and it allowed me to further continue the code. A general difficulty was welcoming AI into my work because before it felt wrong doing it because teachers would discourage it. Now I started using it more because I made sure I learned from it each time I used it because I wanted to be able to do it without AI next time I do it proving that I learned something out of it. This has helped me get through many situations where I was either unclear or stuck on something.

Learning

Was there anything you learned that you think will help you with future challenges?

I learned how to divide with remainders