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Read Me

**Project OverView:**

The original intention for my project was to create a program that allows the user to get information about their horoscope, compatibility with other signs, and learn a few other fun facts related to their horoscope. I also originally wanted the user to input their sun, moon, and rising signs; and output their birth chart. I was able to create a program that allows the user to input their sign, and through the main menu, they are able to get a description of their sign and find out what sign they are most compatible with. The user can also change the sign they originally imputed through the main menu and exit out through the main menu. Although I did not get to accomplish as large of a program as initially intended, I created a program covering the main points I wanted to capture.

**Project Narrative:**

The process of creating my program showed me the importance of being adaptable to change. For the first milestone, I created a function that had a bunch of if and elif statements that had each sign and a brief description of that sign. However, through feedback and workshop time, I realized that my program wouldn’t flow smoothly and create the output that I wanted. I decided to instead go about my program a different way that would allow for more user input. The first thing I did was import requests and import JSON; adding these allowed my program to pull data from the API I am using. Throughout the process of working on my program, I learned about JSON and how it works like a dictionary and allows me to transport data from Aztro, which is the API that I am using for my program. I eventually got rid of my original function and created a list that contained all the signs; then, the user could input their sign. I created the main menu because it added structure to the program that my original function did not provide. Through the main menu, the user could find a description of their sign, find out who they are compatible with, and change their sign and exit.

After the first milestone, I was able to create more structure for my program. The second milestone helped me fine-tune the program to make it run as smoothly as possible and allow for clear user input. I initially did not have a menu option that allowed the user to change their sign, but after input, I realized that would be helpful for the user when interacting with my program. The second milestone also allowed me to fix some of my spacing issues within the program. Throughout working on this project, I realized that a lot of the lectures were helpful. One thing that surprised me was how much I learned throughout the process of working on my program. Before I started my project, I did not think it would turn out the way it did. I learned something new during each workshop time, and I have a newfound appreciation for coding that I did not have before. I enjoyed the process of going back and forth when something didn’t work, and it was satisfying to see my program run how I intended it to. I also realized how much user input affects a program. When you involve user input, you have to account for something that is not thinking in the way a computer does. I went back to my program multiple times and added things that I did not initially consider. I had to account for the user imputing something that wasn’t a sign on the list that I created. If the user inputs anything besides one of the signs on the list, the program tells the user that it is not applicable and to please try again. If I could go back and do the project again, I would keep the structure I have now, and I would add a few more menu items to include more of the stuff that I talked about in my proposal. A lot of my time was spent figuring out how to structure my program, but now that I have my structure figured out, I would add more to my program if I had more time.

**Corrections:**

One major correction that I had to make was my spacing. In milestone two, you specifically pointed out that my spacing in lines 43-57 was not in the scope of my function for the main menu. Therefore my program was not going to run. You also pointed out that invisible characters would be helpful, and after turning them on, I was able to fix the problem. One thing I was not expecting was the number of minor errors I would make. Small mistakes like missing a comma or forgetting to use parenthesis would make my whole program not run. I was expecting to run into more significant issues, but the small mistakes added up quickly. However, I am grateful for this project because it was a learning experience. It helped me fine-tune my basic programming skills, and I learned more along the way.