

Weekly Report

Week 4

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Projects Completed: To-Do List, Simple Calculator

Date: 28-02-2024

Content:

- Tasks Completed:

- Developed a To-Do List application in Python.
- Added functionality to add, remove, update, and display tasks.
- Implemented date and time formatting for tasks.
- Designed and implemented a Python program for a simple calculator.
- Incorporated functions for addition, subtraction, multiplication, and division.
- Implemented user input prompts for numbers and operation choice.
- Ensured proper error handling for division by zero.

- Milestones Achieved:

- Successfully created a functional To-Do List application.
- Demonstrated the ability to manage tasks and user input effectively.
- Enhanced the application's usability by formatting dates and times correctly.
- Successfully created a functional calculator program.
- Program allows users to perform calculations accurately based on their input.

- Contributions to the Project:

- Improved user experience by ensuring clear and organized task management.
- Enhanced code readability and maintainability through proper formatting and comments.
- Assisted team members in understanding and implementing new features.
- Developed the entire calculator program from scratch.
- Ensured the program's functionality and accuracy through rigorous testing.
- Improved user experience by providing clear prompts and error messages.

- Challenges and Hurdles:

- Challenge: Formatting dates and times correctly in the To-Do List application.
- Approach: Researched and implemented the ``strftime`` method to format dates and times.
- Solution: Successfully formatted dates and times according to the desired format.
- User Input Handling: One challenge was handling user input for numbers and operations. I addressed this by using the `input ()` function to capture user input as strings and then converting them to float for numerical calculations.
- Division by Zero: Another challenge was handling division by zero. I implemented a check in the `divide ()` function to prevent this and display an appropriate error message.

Lessons Learned:

- Lesson 1: Importance of proper date and time formatting in applications.
- Lesson 2: Value of thorough research and understanding of Python libraries.
- Lesson 3: Enhancing user experience through effective design and functionality.

Summary:

In summary, this week was productive, and I successfully completed the To-Do List application, and calculator's overcoming challenges and contributing to the project's success. I learned valuable lessons that will benefit me in future projects and endeavours, enhancing my skills in Python programming and problem-solving. I look forward to applying these skills to create more efficient and user-friendly applications in the future.

To-Do List: https://github.com/NJ120903/CODSOFT/blob/main/to_do.py

Calculator: <https://github.com/NJ120903/CODSOFT/blob/main/calci.py>