MINI PROJECT

TITLE: TO SOLVE A DIALY LIFE PROBLEMS

TOPIC: PERSONAL FINANCE MANEGER

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DESCRIPTION:

Personal Finance Manager:

This program helps to track expenses, income, and budget. It takes into account your name, income, expenses, and savings goals to provide personalized recommendations.

Features:

- 1. Name: Enter your name
- 2. Income: Enter your monthly income
- 3. Expenses: Enter your monthly expenses (e.g. rent, utilities, groceries, transportation, entertainment)
- 4. Savings: Enter your monthly savings goal
- 5. Budget Calculation: The program calculates your budget based on your income, expenses, and savings goal

6. Recommendations:

- If your budget is positive, the program prints a statement congratulating you on having a surplus apart from all expenses and savings
- If your budget is negative, the program recommends how much money you need to earn to cover expenses and savings

> CASE STUDY OF THE PROJECT:

Background:

The Personal Finance Manager program is designed to help individuals track their income, expenses, and savings. It provides a simple and easy-to-use interface for users to input their financial data and generates a financial statement that shows their budget and recommends to improve their financial situation.

Case Study : 1

Name : Rajesh

Income : \$4,000 per month

Expenses :

• Rent : \$1,500

• Utilities : \$150

• Groceries : \$500

• Transportation : \$200

• Entertainment : \$500

Total Expenses : \$2,850

Savings : \$500

Budget Calculation

Budget = Income - Total Expenses - Savings

= \$4,000 - \$2,850 - \$500 = \$650

Recommendation:

Since the budget is positive (\$650), the program will print a statement congratulating Rajesh on having a surplus apart from all expenses and savings.

Output:

"Congratulations Rajesh! You have a surplus of \$650 apart from all expenses and savings."

Case Study 2:

Name : Vasavi Kumari

Income : \$3,500 per month

Expenses :

• Rent : \$1,200

• Utilities : \$100

• Groceries : \$400

• Transportation: \$150

• Entertainment: \$300

Total Expenses : \$2,150

Savings : \$500

Budget Calculation:

Budget = Income - Total Expenses - Savings

= \$3,500 - \$2,150 - \$500 = \$850

Recommendation

Since the budget is positive (\$850), the program will print a statement congratulating Vasavi on having a surplus apart from all expenses and savings.

Output

"Congratulations Vasavi Kumari! You have a surplus of \$850 apart from all expenses and savings."

Implementation:

The Personal Finance Manager program will be implemented using Python programming language. The program will use a simple text-based interface to accept user input and display the financial statement. The program will use basic arithmetic operations to calculate the user's budget and will use conditional statements to provide recommendations for improving their financial situation.

Testing:

The Personal Finance Manager program will be tested using a combination of manual testing and automated testing. Manual testing will involve testing the program with different inputs and verifying that the output is correct. Automated testing will involve writing test cases to verify that the program is working as expected.

Deployment:

The Personal Finance Manager program will be deployed as a standalone application that can be run on a user's local machine. The program will be distributed as a Python script that can be downloaded and run by users. The program will not require any additional software or libraries to run.

MINI PROJECT CODE

OUTPUT

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    File Edit Shell Debug Options Window Help
                                1.set name
2. Set Income
3. Add Expense
4. View Expenses
5.set savings
6. Calculate Budget
7. Exit
Choose an option: 1
Enter your name: Rajesh
1.set name
2.Set Income
3. Add Expense
4. View Expenses
5.set aavings
6. Calculate Budget
7. Exit
Choose an option: 2
Enter your monthly income: 4000
1.set name
2. Set Income
3. Add Expense
4. View Expenses
5. set savings
6. Calculate Budget
7. Exit
Choose an option: 3
Enter expense name: rent
Enter expense amount: 1500
1.set name
2.Set Income
3. Add Expense
4. View Expenses
5.set savings
6. Calculate Budget
7. Exit
Choose an option: 3
Enter expense name: utilities
Enter expense name: uti
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▶ IDLE Shell 3.12.5 - 0 X

Conclusion:

In conclusion, the Personal Finance Manager program is a simple yet effective tool for individuals to track their income, expenses, and savings. It provides a user-friendly interface for inputting financial data and generates a comprehensive financial statement that shows the user's budget and recommends ways to improve their financial situation. The program is easy to use, understand, and deploy, making it an ideal solution for anyone looking to take control of their finances.

By using the Personal Finance Manager program, individuals can:

- Easily track their income, expenses, and savings
- Generate a comprehensive financial statement
- Identify areas for improvement in their financial situation
- Receive recommendations for improving their financial situation

Overall, the Personal Finance Manager program is a valuable tool for anyone looking to manage their finances effectively. Its simplicity, ease of use, and comprehensive features make it an ideal solution for individuals of all financial backgrounds.