

Here is a simple Python program to **calculate family expenses**, including income, total expenses, and balance. This can be extended based on your specific needs (e.g., categories, savings, visualizations).

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## Python Code to Calculate Family Expenses

```
def input_expenses():
    expenses = {}
    print("Enter your expense categories and amounts (type 'done' to finish):")
    while True:
        category = input("Category: ")
        if category.lower() == 'done':
            break
        try:
            amount = float(input(f"Amount for {category}: "))
            expenses[category] = amount
        except ValueError:
            print("Invalid input. Please enter a numeric value.")
    return expenses

def calculate_total(expenses):
    return sum(expenses.values())

def display_summary(income, expenses):
    total_expenses = calculate_total(expenses)
    balance = income - total_expenses

    print("\n--- Family Expense Summary ---")
    print(f"Total Income: ${income:.2f}")
    print("Expenses:")
    for category, amount in expenses.items():
        print(f"    {category}: ${amount:.2f}")
    print(f"Total Expenses: ${total_expenses:.2f}")
    print(f"Remaining Balance: ${balance:.2f}")

def main():
    try:
        income = float(input("Enter total monthly income: "))
        expenses = input_expenses()
        display_summary(income, expenses)
```

```
except ValueError:  
    print("Please enter a valid number for income.")
```

```
if __name__ == "__main__":  
    main()
```

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### Features:

- Prompts the user to enter monthly income.
  - Accepts multiple expenses under different categories (like rent, food, transport).
  - Calculates total expenses and remaining balance.
  - Prevents input errors with basic validation.
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Would you like:

- This as a web or mobile app?
- A version that stores data in a file or database?
- A graphical chart (using `matplotlib`)?

Let me know how advanced or simple you need it.

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