



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()
```