

العنوان

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void main() {
    //
    List<Map<String, dynamic>> incomeList = [];
    List<Map<String, dynamic>> expenseList = [];

    //
    while (true) {
        print(" Welcome to the Budget Management Application!");
        print("Please choose an option:");
        print("1. Add income");
        print("2. Add expense");
        print("3. View summary");
        print("4. Exit");

        stdout.write("Enter your choice: ");
        String? choice = stdin.readLineSync();

        switch (choice) {
            case '1':
                //
                stdout.write("Enter income description: ");
                String? incomeDescription = stdin.readLineSync();
                stdout.write("Enter income amount: ");
                double? incomeAmount = double.tryParse(stdin.readLineSync() ?? "");
                if (incomeAmount != null && incomeAmount > 0 && incomeDescription != null) {
                    incomeList.add({'description': incomeDescription, 'amount': incomeAmount});
                    print("Income added!");
                } else {
                    print("Invalid input. Please enter a valid description and a positive amount.");
                }
                break;

            case '2':
                //
                stdout.write("Enter expense description: ");
                String? expenseDescription = stdin.readLineSync();
                stdout.write("Enter expense amount: ");
                double? expenseAmount = double.tryParse(stdin.readLineSync() ?? "");
                if (expenseAmount != null && expenseAmount > 0 && expenseDescription != null) {
                    expenseList.add({'description': expenseDescription, 'amount': expenseAmount});
                    print("Expense added!");
                } else {
                    print("Invalid input. Please enter a valid description and a positive amount.");
                }
                break;
```

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case '3':
    //
    double totalIncome = incomeList.fold(0, (sum, item) => sum + item['amount']);
    double totalExpenses = expenseList.fold(0, (sum, item) => sum + item['amount']);
    double netProfit = totalIncome - totalExpenses;
    print(" Summary:");
    print("Total income: $$totalIncome");
    print("Total expenses: $$totalExpenses");
    print("Net profit: $$netProfit");

    //
    if (netProfit > 0) {
        double tax = netProfit * 0.15;
        print("Tax to be paid: $$tax");
    }
    break;

case '4':
    print("Exiting the application. Goodbye!");
    return;

default:
    print("Invalid choice. Please try again.");
}
}
}

```