

MIDOCEAN University

Flutter & dart - Assignment 1

Task: Budget Management

Student: ■■■■■ ■■■ ■■■■■ ■■■■■■ (ID: 243000463)

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// Student: ■■■■■ ■■■ ■■■■■ ■■■■■■
// Student ID: 243000463
// University: MIDOCEAN University
// Course: Flutter & dart
// Assignment 1 - Budget Management

import 'dart:io';

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

  while (true) {
    print("\n=== Budget Management App ===");
    print("1. Add Income");
    print("2. Add Expense");
    print("3. View Summary");
    print("4. Exit");

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

    if (userChoice == '4') {
      print("Exiting... Goodbye!");
      break;
    }

    if (userChoice == '1') {
      stdout.write("Enter income description: ");
      String desc = stdin.readLineSync()!;
      stdout.write("Enter income amount: ");
      double? amount = double.tryParse(stdin.readLineSync()!);
      if (amount != null && amount >= 0) {
        incomeList.add({desc: amount});
        print("Income added!");
      } else {
        print("Invalid amount!");
      }
    }

    else if (userChoice == '2') {
      stdout.write("Enter expense description: ");
      String desc = stdin.readLineSync()!;
      stdout.write("Enter expense amount: ");
      double? amount = double.tryParse(stdin.readLineSync()!);
      if (amount != null && amount >= 0) {
        expenseList.add({desc: amount});
        print("Expense added!");
      } else {
        print("Invalid amount!");
      }
    }

    else if (userChoice == '3') {
      double totalIncome = 0;
      double totalExpense = 0;

      incomeList.forEach((item) => totalIncome += item.values.first);
      expenseList.forEach((item) => totalExpense += item.values.first);

      double net = totalIncome - totalExpense;
      print("\nIncome: \$$totalIncome\nExpenses: \$$totalExpense");

      if (net > 0) {
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double tax = net * 0.15;
print("Net Profit: \${net}");
print("Tax (15%): \${tax}");
} else {
    print("Net Loss: \${net.abs()}");
}
}

else {
    print("Invalid choice!");
}
}
```