

MEAL PLANNER PROJECT

```
import java.util.ArrayList;
import java.util.Scanner;

class FoodItem {
    String name;
    int calories;

    FoodItem(String name, int calories) {
        this.name = name;
        this.calories = calories;
    }
}

class MealPlan {
    ArrayList<FoodItem> foodItems;
    int calorieLimit;

    MealPlan(int calorieLimit) {
        this.calorieLimit = calorieLimit;
        this.foodItems = new ArrayList<>();
    }

    void addFoodItem(FoodItem item) {
        if (calculateTotalCalories() + item.calories <= calorieLimit) {
            foodItems.add(item);
            System.out.println(item.name + " added.");
        } else {
```

```
        System.out.println("Cannot add " + item.name + ". Exceeds calorie limit.");
    }
}
```

```
void removeFoodItem(FoodItem item) {
    foodItems.remove(item);
    System.out.println(item.name + " removed.");
}
```

```
int calculateTotalCalories() {
    int total = 0;
    for (FoodItem item : foodItems) {
        total += item.calories;
    }
    return total;
}
```

```
void displayMealPlan() {
    System.out.println("Meal Plan:");
    for (FoodItem item : foodItems) {
        System.out.println(item.name + ": " + item.calories + " calories");
    }
    System.out.println("Total Calories: " + calculateTotalCalories());
}
}
```

```
public class Main {
    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        System.out.print("Enter calorie limit: ");
```

```

int calorieLimit = scanner.nextInt();
MealPlan mealPlan = new MealPlan(calorieLimit);

while (true) {
    System.out.print("Add or remove food item (add/remove/exit): ");
    String action = scanner.next();
    if (action.equalsIgnoreCase("exit")) {
        break;
    }

    System.out.print("Enter food item name: ");
    String name = scanner.next();
    System.out.print("Enter calories: ");
    int calories = scanner.nextInt();
    FoodItem foodItem = new FoodItem(name, calories);

    if (action.equalsIgnoreCase("add")) {
        mealPlan.addFoodItem(foodItem);
    } else if (action.equalsIgnoreCase("remove")) {
        mealPlan.removeFoodItem(foodItem);
    }

    mealPlan.displayMealPlan();
}
scanner.close();
}
}

```

Output

```
Enter calorie limit: 10
Add or remove food item (add/remove/exit): add
Enter food item name: sugar_water
Enter calories: 10
sugar_water added.
Meal Plan:
sugar_water: 10 calories
Total Calories: 10
Add or remove food item (add/remove/exit): |
```