MEAL PLANNER

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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.");
```

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 }
 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();
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            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