#include<iostream>

#include<list>

class Greeter {

private:

//recipeDB

RecipeDB recipeDB;

//PlanManager

PlanManager planManger;

public:

//constructor

Greeter();

//print Main menu including Browse, Add, Edit, Review, Create Plan

void MainMenu();

//Get User Input

std::string GetInput();

//Browse existing Recipe

void BrowseRecipe();

//Edit Recipe

void EditRecipe();

//Browse existing Plan

void BrowsePlan();

//Edit Plan

void EditPlan();

};

class Recipe {

private:

//Recipe name

std::string name;

//instruction of recipe

std::string instruction;

//ingredient of recipe

std::list<std::string> ingredients;

public:

//constructor

Recipe(std::string name, std::string instruction, std::list<std::string>ingredients);

Recipe();

//print about Recipe data - name, instruction etc

void Display();

///Setter Method - Edit

void SetName(std::string name);

void SetInstruction(std::string instruction);

void AddIngredient(std::string name);

void RemoveIngredient(std::string name);

//get list of ingredient

std::list<std::string> GetIngredient();

};

class RecipeDB {

private:

std::list<Recipe> recipeDB;

public:

//constructor

RecipeDB();

//Insert new Recipe

void Insert(Recipe recipe);

//Get all recipes

std::list<Recipe> GetRecipeDB();

//Fine recipe via name

Recipe FindRecipe(std::string name);

//Finde recipe via name, and edit

void ChangeRecipe(std::string name);

};

class Meal {

private:

std::list<Recipe> recipes;

public:

//constructor

Meal(std::list<Recipe> recipes);

Meal();

///Edit Recipe

void AddRecipe(Recipe recipe);

void DeleteRecipe(std::string name);

///Get Ingredient List

std::list<std::string> GetIngredientList();

};

class Date {

private:

std::string name;

int year, month, date;

std::string insruction;

std::list<Meal> meals;

public:

//constructor

Date();

//Display Date Data

void Display();

/// SetterMethod

//setInstruction

void SetInstruction(std::string inst);

//getIngredientList

std::list<std::string> GetIngredientList();

};

class PlanManager {

private:

std::list<Date> Plans;

public:

//Insert new Plan

void Insert(Date plan);

//Get all Plans

std::list<Date> GetPlans();

//Find Plan via name

Date FindPlan(std::string name);

//Find Plan via name, and Edit

void ChangePlan(std::string name);

};