Steppingstone two code explanation, purpose of code, issues with development and solutions to those issues.

Code explanation

1. The first line of the code "**import java.util.Scanner;**" imports the java.util package that it will use to create objects from a class called "Scanner". After creating this object, it will then use its methods such as the "nextLine()" method to read data from the terminal.
2. The second line of code "**public class SteppingStone2_IngredientCalculator**" creates a class which will be used to create methods and variables to do our ingredient naming and calculations
3. The third line of code "**public static void main (String [] args)**" creates a main method which is a required methods in all java programs. All the code inside this main method will be executed
4. The next four lines of code define "**String nameOfIngredients"," double numberCups = 0.0,""numberCalories = 0", "double totalCalories = 0.0"** "defines four variables and indicates the kind of data that will be held in those variables. The first one will hold a string, the second one will hold a floating-point number, the third one will hold an integer, and the last one will hold another floating-point number.
5. The next line of code "**Scanner scnr = new Scanner (System.in)**," is used to create a scanner object, from the java.util package that was imported in the first line of the code.
6. The next line " **System.out.println("Please enter the name of the ingredient")'** prints the text "Please enter the name of the ingredient," in the terminal to give directions for the user to enter the name of the ingredient that will be scanned by the Scanner object
7. The next line " **nameOdIngredient = scnr.nextLine()** "uses the scnr.nextLine() method to copy the name of the ingredient that will be entered in the terminal and stores it into the variable called "nameOfIngredient."
8. The next line "**System.out.println("Please enter the number of cups of "+ nameOfIngredient + scnr.nextLine()**," used the value stored in the variable 'nameOfIngredient" that was entered by the user in the terminal to print a text to request the user to enter the number of cups of that ingredient that will be needed."
9. The next line of code "**numberCups = scnr.nextFloat()**" uses the scanner object method "scnr.nextFloat()" to collect the input entered by the user in the terminal and store that input into the "numberCups" variable.
10. The next line "S**ystem.out.println("Please enter the number of calories per cup: "),"** prints text in the terminal asking the user to input the number of calories in each cup of the ingredient that was entered earlier
11. The next line "**numberCaloriesPerCup = scrn.nextInt()**" copies the value of the number of calories per cup of that ingredient and stored it in the "numberCaloriesPerCup" variable
12. The next line "**totalCalories = numberCups * numberCaloriesPerCup**" uses the values stored in the numberCups variable and the numberCaloriesPerCup variable to compute the total number of calories from each ingredient and store in the "totalCalories" variable.

13. The last line "**System.out.println(nameOfIngredient + "uses "+ numberCups + "cups and has "+ totalCalories + "calories. ")** "uses the "nameOfIngredient variable, the "numberCups" variable and the totalCalalories variable to print the total number of calories found in one ingredient on the terminal.

Purpose of code

Our code is used for naming and calculating the calories in a single ingredient. It uses the number of cups of each ingredient and the calories per cup to calculate the total number of calories from that ingredient.

Issues when developing code

The code will not run on the NetBeans IDE, and I just could not figure out why. I watched several videos to figure out why and tried different approaches, but the code will not run. I studied the code line by line and everything seemed good, but code will not run. I decided to use a different IDE called visual studio code and the same code ran with no problems. This proved that there was no problem with the code.

Solutions to the problems

I temporarily used a different IDE called visual studio code to see if the code would run correctly and it did. This proved to me that there was no problem with the code and the NetBeans IDE needed some updates which I just could not figure out right away.