**Assessment Instructions**

**Instructions:** Write a program that will evaluate whether the nutritional components listed on a food label exceed the Daily Reference Value (%DRV) for a healthy diet, established by the Food and Drug Administration.

1. Download the Food and Drug Administration’s [Nutrition Facts Label brochure](http://www.fda.gov/Food/ResourcesForYou/Consumers/NFLPM/ucm274593.htm) to the Unit

04 Documents folder.

2. Print a copy of the document for your notebook.

3. Read the brochure to prepare for the assessment.

4. Download the [Food Label Nutrition Facts](4.02_FoodLabelNutritionFacts.pdf) document to the Unit04 Documents

folder.

5. Print a copy of the document for your notebook.

6. Read the document to learn more about the nutrition facts on food labels.

7. Create a new project called Boolean Expressions in the Unit



04 Assessment folder.

8. Download the partially completed [NutritionLabelV1.java](http://www.connexus.com/extra/ThirdPartyProviders/FLVS/2394_2395_AP_CompSci_v9_CA/module04/javamod04/NutritionLabelV1.txt) file

to the newly created project folder.

9. The code was started, but never finished. Use the existing design and structure to

complete the program.

10. Prompt the user to enter the name of a food, the number of servings consumed, and

the number of calories for one serving.

11. Prompt the user to enter the amount of fat, carbohydrates, protein, and fiber contained

in one serving.

12. The output should display the quantities of each value entered relative to the number

of servings contained in the package, and whether the amounts exceed the Daily Recommended Values for each nutritional component. Use variables to print each column of data.

13. Choose foods that you like, and see how they compare to the DRVs for calories, fats,

carbohydrates, fiber, and protein.

14. When you submit your assessment, provide the necessary information to test your

program in the PMR for the assessment.

**Expected Output:** When your program runs correctly your output should be similar to the following. Neatly formatting output has not yet been covered, so only worry about lining up the columns for the sample food item you submit. (Be sure to include the information necessary to test your program in the PMR.)

I]BlueJ: TerminalWindow · 4.02 Boolean Expressions !;JIQ)fR)



Options

Entethe name of the food item:Deep Dish Pizza

How many se vings will you eat? 5

EnteCalo ies peSe ving: 320

Entet:: gt:am.s of Total Fat pet: Set::ving: 13

Entet: gt::ams Cat::bohydt::ate pet: set:ving: 37

Entet:: gt:ams Fibet: pet: set:ving: 2

Entet:: gt::ams Pt::otein: 16

Food:Deep Dish Pizza

Se:cving Size: 5

Component Total Pet:cent Less than Daily Value

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|  |  |  |  |
| --- | --- | --- | --- |
| Calot::ies | 1600 | 80 | tt::ue |
| Fat: | 65 | 100 | false |
| Carbohydrat | 185 | 61 | tt::ue |
| Dietat:y Fiet:: | 10 | 40 | tt:ue |
| Pt::otein: | 80 | 160 | false |

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