Project Report Phase 2

Deadline: Wednesday 07/04/2021 @ 23:59

**[Total Mark for this project is 5]**

***Business Computer Languages***

***IT401***

Students Details:

|  |  |  |
| --- | --- | --- |
|  |  |  |
| **Name1:** ### (Leader)**Name2:** ###**Name3:** ###**Name4:** ### | **ID1:** ###**ID2:** ###**ID3:** ###**ID4:** ### | **CRN:** ### |
|  |  |  |

**Instructions:**

* This project report must be submitted on Blackboard (**WORD and PDF**) via the allocated folder.
* **Only the group leader submit the report and the java classes.**
* You are advised to make your work clear and well-presented; marks may be reduced for poor presentation.
* Late submission will result in ZERO marks being awarded.
* The work should be your own, **copying from students or other resources will result in ZERO marks.**
* Use **Times New Roman** font for all your answers.

# Project objective:

This project is an opportunity for you to practice your knowledge in Java. It will allow you to develop your skills of working within a team, thanks to your interaction with your colleagues in designing and creating a small program.

# Project Description:

The Saudi Heart Association recommends that no more than 30 percent of a person's daily calories come from fat.  Each gram of fat is 9 calories. Given the grams of fat and the number of calories in a food item, we can calculate the percentage of calories that comes from fat for that food item as follows:

Fact calculate percent = $\frac{ 9 X Fat }{calories}$ \* 100

# Project Phase 2 questions:

In this project, you are requested to

1. Prompt user to enter name of a food
2. Input food name
3. Prompt user to enter the grams of fat in the food(for the food he/she entered in previous input)
4. Input grams of fat
5. Prompt user to enter the number of calories in the food "Enter the the number of calories: "
6. Input the number of calories
7. Print the food item and the percentage of calories that come from fat

**(fatCalPercent)**

1. Print one of the two following messages depending on the percentage

of calories from fat **(value of fatCalPercent)**

1. "This item is Heart Heathy!" When FactCalculatePercent <= 30
2. "This item is NOT Heart Heathy!" otherwise.
3. Ask the user if he/she would like to continue Y/ N? The program should be continue until the user press N.

**IV: Hint**

You can use the do while loop as figure 1



Figure 1: do while loop

**Run your program at least 3 times. An example of test data is given in table 1.**

|  |  |  |
| --- | --- | --- |
| Item | Grams of fat | Calories |
| Tuna   | 1 | 60 |
| Beef | 7 | 200 |
| V8 Juice    | 0 | 35 |

Table 1: example of test data

**Your output should be similar to the result in figure 2.**



Figure 2: example of output

# Marking Criteria

|  |  |
| --- | --- |
| Criteria  | Marks  |
| The program is bugs-free | /5 |
| The source code is well documented (commented) and program uses standard Java naming conventions | /5 |
| Question 1,2,3,4,5 and 6 | /10 |
| Question 7 | /10 |
| Question 8 and 9 | /10 |
| Output screenshots provided in the report | /10 |
| **Total** | **/50** |
| **Final Grade** | **/5** |

**Answer**

1. **Brief description**

Provide a brief description of your program in this section.

1. **Program code**

Put the code of your program in this section. Do not forget to document (comment) your code.

1. **Screenshots**

Put the different screenshots with a brief description in this section.

1. **Difficulties Faced**

Provide a brief description of difficulties and challenges faced during this phase of the project.