



**HACETTEPE**  
University

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**Section :** 03

**Programing Language :** JAVA

**Title :** Calorie Calculation for Healthy Life

### **1.What is the main goal of the assignment and what points need to be understood?**

The main purpose of this assignment is to improve our coding skills and ensure that we produce an Algorithm that Works in a clear way using the most important topics,which are Class-Object, of Java Language. One of the other purposes is to testing our basic java skills.

### **2.How do you approach this problem and how do you implement it, what do you use?**

First and foremost, I see each problem and each assignment as a chance to improve my ability to write code, and then first step is always think about how the problem can be solved and create an algorithmic diagram.After I create the algorithmic diagram, I convert it into a code that the computer can understand.

I have solved the problem by using classes and arrays .Also I emphasized encapsulation rules.

### **3.What class do you use to store humans or the foods etc.?**

I have used Human , HumanProduction , Sport , SportProduction , Food , FoodProduction , WriteTheFile and Main classes. HumanProduction , SportProduction and FoodProduction takes the informations from the files and produce objects that belongs to Human , Sport and Food classes.

### **4.Explanation of Code**

I have used Human , HumanProduction , Sport , SportProduction , Food , FoodProduction , WriteTheFile and Main classes. HumanProduction , SportProduction and FoodProduction takes the informations from the files and produce objects that belongs to Human , Sport and Food classes.

After that, Those classes returns arrays,which includes those objects, to Main class.( HumanProduction returns an array,which contains all the humans that formed. SportProduction returns an array,which contains all the sports that formed. FoodProduction returns an array,which contains all the foods that formed. Main class sends those arrays to WriteTheFile class and in this class there is a 2 dimensional array whose name is data and it includes all informations on the file ( args[0] ). According to comparisons , Some qualities is changed like human's TakesCalorie or BurnsCalorie. Then these informations is written to "monitoring.txt".

### **5.Details of Algorithm**

- \* Get the information from the files and assign them to the arrays
- \* Make comparisons.
- \* Change the values in the arrays.
- \* The changes are suppressed.