Assignment 2

Report

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Hacettepe University
Computer Science and Engineering Department

Name and Surname	: Ismet OKATAR
Identity Number	: 21727542
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Experiment	: Assignment 2
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Advisors	: R.A Nebi Yilmaz
E-mail	: b21727542@cs.hacettepe.edu.tr

Explaining The Problem

The main goal of that asignment project is writing an calorie calculation for healthy life program. İt calculates daily calorie need for each people. İt calculates daily calorie taken and burned , and gives how much calorie more can be taken by that people.

My Solution

İ have to create classes named people, foods and sport for storing the data . And then i have to read the data form text files and assign them to my classes. Then i have to read the commands from command.txt and execute the commands.

My data Structure

At people class

      int id;

      String name;

      String gender;

      int weight;

      int height;

      int age;

      int dailyCal;

      int calTaken;

      int calBurn;

At sport class:

      int id;

      String name;

      int cal;

At food class:

      int id;

      String name;

      int cal;

İ have opened 50 objects array from people class

İ have opened 100 objects array from food class

İ have opened 100 objects array from sport class

İn curLine i store the line which i readed from text file

İn curLineS i store splitted curLine

My Alghoritm

İn ma.java:

      i create objects

      i read files by using reader.java

      i execute commands by using command.java

İn people.java:

      i declare variables

      in dailyCal (people)function

            if male of female

                  result = calculation either male or female

            return result

      in printStatus(people) function

it prints in wanted form the people s status

İn sport.java:

i declare variables

İn food.java

i declare variables

İn reader.java

foodRead(String text,food[])

if not reached to end of file read line to curLine

Split it and assign it to variables

surround it with try catch block

sportRead(String text,food[])

if not reached to end of file read line to curLine

Split it and assign it to variables

surround it with try catch block

peopleRead(String text,people[])

if not reached to end of file read line to curLine

Split it and assign it to variables

surround it with try catch block

İn command.java

if printList

print status of the peoples which are usen before in command block

i used an basic array for storing the people indexs whichs are called before in command block

if print

find the peoples id and print its status by using people.printStatus

if food

for understand it is food , i look at second ids first numbers in line if 1 thats mean it is food

curFoodNum stores the index of food object whichs id is equal to id in line.

find the peoples id and add the foods calorie to people.calTaken * portion

Print wanted output

if Sport

for understand it is sport , i look at second ids first numbers in line if 2 thats mean it is sport

curSportNum stores the index of sport object whichs id is equal to id in line.

  find the peoples id and add the sports calorie to people.calBurn*
  Time Duration
  Print wanted output
Print stars