Mod 4 Project

Chris Schmidlin

Rasmussen College

Author Note

This paper is being submitted on Thursday, July 25, 2019, for Anastasia Rashtchian’s COP2268C Java Programming course.

Mod 4 Project

import java.util.Scanner;

import java.io.\*;

import java.io.FileNotFoundException;

public class BMICalc {

public static void main(String[] args) throws FileNotFoundException, IOException{

int BMI = 0;

//Creating the scanner for getting user's info

Scanner in = new Scanner(System.in);

char token = 's';

do{

System.out.println("Start here!");

//Getting user's name

System.out.print("Please input your first name: ");

String fname = in.nextLine();

System.out.print("Please input your last name: ");

String lname = in.nextLine();

//Getting user's birthdate

System.out.print("Please input your birthdate (MM/DD/YYYY): ");

String birthdate = in.nextLine();

//Getting user's weight

System.out.print("Please input your weight: ");

int weight = in.nextInt();

//Getting user's height

System.out.print("Please input your height in inches: ");

int height = in.nextInt();

//Calculating the BMI of the user

try {

BMI = 703 \* weight / (height\*height);

} catch (Exception e){

BMI = -1;

System.out.println("The exception is " + e.getMessage());

System.out.println("The exception code is " + e.toString());

} finally {

if (BMI == -1){

System.out.println("Please start over.");

System.exit(0);

}

}

FileWriter fw = new FileWriter("BMI.csv");

//Create headers in the CSV file

fw.append("Name" + ",");

fw.append("Birthday" + ",");

fw.append("Weight" + ",");

fw.append("Height" + ",");

fw.append("BMI");

fw.append("\n");

//Input info

fw.append(fname + " " + lname + ",");

fw.append(birthdate + ",");

fw.append(weight + ",");

fw.append(height + ",");

fw.append(BMI + ",");

fw.flush();

fw.close();

//Printing out the user's info

System.out.println(fname + " " + lname);

System.out.println("Birthdate: " + birthdate);

System.out.println("Weight: " + weight);

System.out.println("Height: " + height);

System.out.println("BMI: " + BMI);

//Printing out the user's BMI Score

if (BMI < 18.5){

System.out.println("BMI Score is Underweight");

} else if (BMI >= 18.5 && BMI <= 24.9){

System.out.println("BMI Score is Normal");

} else if (BMI >= 25 && BMI <= 29.9){

System.out.println("BMI Score is Overweight");

} else {

System.out.println("BMI Score is Obese");

}

//Printing out the user's insurance payment category based on the BMI

if (BMI < 18.5){

System.out.println("Insurance payment category is low.");

} else if (BMI >= 18.5 && BMI <= 24.9){

System.out.println("Insurance payment category is low.");

} else if (BMI >= 25 && BMI <= 29.9){

System.out.println("Insurance payment category is high.");

} else {

System.out.println("Insurance payment category is highest.");

}

char userInput = 's';

System.out.print("Another? Press anything to continue and press 'q' to stop. ");

userInput = in.next().charAt(0);

if (userInput == 'q'){

token = 'q';

}

} while (token != 'q');

}

}

References