Algoritms and Programming II

2022-2023 Spring

QUIZ-1 QUESTIONS (17.03.2023)

I) Write a Java application to implement the game whose requirements are given below:

* Asks the user to enter the amount of money he or she wants to enter.

* The program should randomly select a word three times from the words Çilek, Portakal, Elma, Muz, Kiraz, Kavun.   You can generate random numbers between 0 and 5 to select a word. If the random number is 0 then Çilek, if the random number is 1 then Portakal, and such is selected recpectively.

* Print out the selected three words to the screen.

* If the selected words are different from each other then the program states that the user won 0 TL. If two of the selected words are the same then user wins two times the amount entered. If all of the selected words are the same then the user wins three times the amount entered.

* The program will ask whether the user wants to play again. If the user enters 'y' or 'Y' then these steps are repeated. If not, the program displays the total amount of money entered, the total amount won and the net income (such as -100 or +200). and the application exits.

II) a)Write a class Employee containing the data and methods that are described below:

* A String variable nameSurname that holds the name and surname, an int variable ID to hold employee's ID number, a String variable department that holds the name of the department that the employee works, and a String variable position that holds the employee's job title.

* A no-arg constructor that assigns 9999 to the variable ID and empty string/null to the String variables.

* A constructor with four parameters to assign the values passed to the variables.

* Accessor/mutator methods. (*NOTE: Error control is NOT needed when assigning values.*)

* toString method.

II)

b) Write a test class and do the following in its main method:

* You are required to construct Employee objects reading the information residing in a text file named **girdiQuiz1.txt** Print the information about each object to the screen as soon as you constructed it. (*Note: If the program comes up with word "default" in the begining of a line in the file then use the no-arg constructor to construct the object. Otherwise, construct the object using the values that are read from the curent line of the file.*)

EXAMPLE INPUT FILE (You can form such a file using Notepad)
girdiQuiz1.txt
Ali Tunc,1234,Pazarlama,Mudur

Can Tuz,2164,Muhasebe,Mudur Yardimcisi

Ayse Demir,1675,IT,Programci

Default

Veli Gun,1565,IT,Analist Programci

Rules for Delivering the Quizzes

1. Upload your project to the Quiz-1 directory on EgeDers platform until **26.03.2023 Sunday 23:55** . When naming your project, use your 11 digit university student id and upload it in compressed form (such as 05110000222.rar or zip).

2. You can upload your project many times but the last uploaded version is saved.

3. The codes you write by yourself are more valuable. If a project that is prepared by plagiarizing from another student is detected, then both students will take zero (0) points.