PRO192- Progress Test 1

Duration : 90 minutes

Develop School management OOP application with following components and requirements

1. **Create MVC console application in NetBean:**
   a. Define class Student with following attributes and methods: **(2 marks)**
      + ID, Name, Dob, Java, HTML, Average
      + Constructors, get/set(), toString()
      + calculate average score

   b. Define class School with following attributes and methods: **(5 marks)**
      + List of Student to store data for School(Initialize 5 objects to add to the list)

ID	Name	Dob	Java	HTML	Average
1	Nguyen Van A	15/01/2000	8.5	9.0	
2	Tran Thi B	23/11/1999	7.8	8.2	
3	Le Van C	10/03/2001	9.2	8.8	
4	Pham Thi D	22/07/1998	7.4	7.7	
5	Hoang Van E	11/05/1996	7.0	9.4	

      + Search Student by Dob or average (1 mark)
      + Print List of Student(1 mark)
      + Add new Student from console (1 mark)
      + sort List of Student Decreases by Average(1 mark)
      + Statistics on students born before 2000(1 mark)
   c. Develop SchoolManagement class for application **(3 marks)**
      + Application menu for application include functions: Display all Students, Student Search, Add new Student, sort List of Student, save average for students, Statistics on students
2. **Technical requirements**:
      + Create package **model** for Student and School class
      + Create package **view** for Menu
      + Create package **controller** SchoolManagement class.

ID	NAME	DOB	JAVA	HTML	AVERAGE
1	Nguyen Van A	2000-01-15	8.5	9.0	87.5
2	Tran Thi B	1999-11-23	7.8	8.2	80
3	Le Van C	2001-03-10	9.2	8.8	90
4	Pham Thi D	1998-07-22	7.4	7.7	75.5

Notice: Student must strictly follow all requirements as describe above for marking,

   Any modification the requirement detail is not allowed and will get no mark!