College Personnel and Student Classes

Design And Implementation

The program consists of 5 classes, 2 of which descend from Person (CollegeEmployee, Student) and 1 of which descends from CollegeEmployee (Faculty). A single class is used to provide user interaction, from which the User creates arrays of CollegeEmployee's, Faculty and Students.

Testing

Testing was done with the simple data, as the inputs were primarily strings, with a single boolean value and a single double value. All values were ad libbed, to check what would happen both when correct data was entered and incorrect data was entered, as there was no error handling in the program, as this was not needed in the brief, and I assumed all data entered would be correct.

Source Code Files

Person.java – Contains two methods a setter, which takes arguments for all the fields (fname, lname, address, zipcode, and number), and a method to display the values for all fields.

CollegeEmployee.java - Contains two methods a setter, which takes arguments for all the fields (fname, lname, address, zipcode, number, ssn, salary, and deptNumber), and a method to display the values for all fields. Descends from Person.

Faculty.java - Contains two methods a setter, which takes arguments for all the fields (fname, lname, address, zipcode, number, ssn, salary, deptNumber and permanant), and a method to display the values for all fields. Descends from CollegeEmployee.

Student.java - Contains two methods a setter, which takes arguments for all the fields (fname, lname, address, zipcode, number, major and gpa), and a method to display the values for all fields. Descends from Person

CollegeList.java – The program that is run by the user. Allows the user to input 4 College Employees, 3 Faculty Members and 7 Students, once the user is done it will display the information of each person.

Supporting Files

No Supporting Files

Use Case

The User places all files in the same directory and runs the CollegeList class file, either by compiling and running CollegeList.java in a IDE, or by running java CollegeList in a terminal window located in the same directory as the files.