LAB211Assignment

Type: Short Assignment Code: J1.S.P0017

LOC: 25 Slot(s): 1

Title

Input and display Person Info.

Background

N/A

Program Specifications

Write a program allow user to input and sort person information (name, address, salary)

- Validate salary is a number or not
- Sort Person list ascending
- Show 3 person information by ascending of salary

Function details:

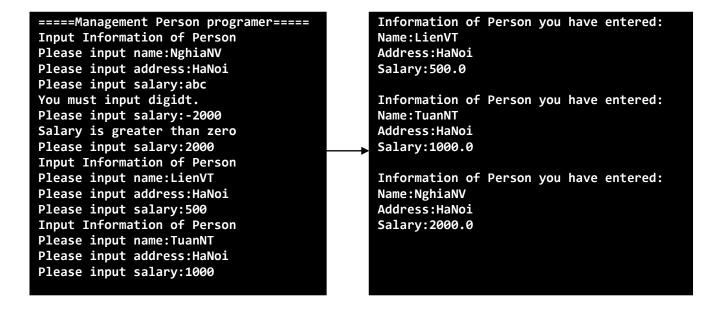
Function 1: Display Gui And Input Data.

- Users run the program. The program prompts users input Data.
- Auto next Function2.

Function 2: Perform function

- Program display input information
- Sort person list by salary ascending and exit program

Expectation of User interface:



Guidelines

Student must implement methods

- inputPersonInfo
- displayPersonInfo
- sortBySalary

in startup code.

Example:

Create a class named Person with properties:

private String name;

private String address;

private double salary;

- + Create constructors: name, address, salary
- + Create get/set functions for Person properties
- + Create function Person inputPersonInfo(String name, String address, String sSalary):
 - Validate salary is a number or not.
 - If salary is not a number, prompt use to re-input and show error message that salary must be a number.
 - If salary is a negative number prompt use to re-input and show error message that salary must be a positive number.
- + Create a functiondisplayPersonInfo(Person person)
 - Display person properties
- + Create Person[] sortBySalary(Person[] person):

Sort person by BubbleSort algorithm

+ Create an array of 3 person.

Function 1: Input Person information

- o Program prompt user to input name, address, salary of Person
- Create a function: Person inputPersonInfo (String name, String address, String sSalary) throws Exception
 - Input:

name: name of Person

address: addressof Person

salary: salary of Person

- Return value:
 - Person object.
 - Exception("Salary is greater than zero"); if input invalid
 - Exception("You must input Salary."); if input invalid
 - Exception("You must input digit."); if input invalid

Function 2: Display Person information.

- o Program show all Person properties just input
- o Create a function: void displayPersonInfo(Person person)
 - Input:
 - person: Person object

Function 3: Sort Person array by salary ascending.

- o Program display all Person properties sort by Person's salary
- Create function: Person[] sortBySalary(Person[] person) throws Exception
 - Input:
 - person: Person array need to be sorted.
 - Return value:
 - Person array sorted by salary.
 - Exception("Can't Sort Person"); If there a errors