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 **Function 2**.

Function 2: Perform function
- Program display input information

- Sort person list by salary ascending and exit program

Expectation of User interface:

```
=====Management Person programer=====
Input Information of Person
Please input name:NghiaNV
Please input address:Ha Noi
Please input salary:abc
You must input digidt.
Please input salary:-2000
Salary is greater than zero
Please input salary:2000
Input Information of Person
Please input name:LienVT
Please input address:Ha Noi
Please input salary:500
Input Information of Person
Please input name:TuanNT
Please input address:Ha Noi
Please input salary:1000
```

```
Information of Person you have entered:
Name:LienVT
Address:Ha Noi
Salary:500.0

Information of Person you have entered:
Name:TuanNT
Address:Ha Noi
Salary:1000.0

Information of Person you have entered:
Name:NghiaNV
Address:Ha Noi
Salary:2000.0
```

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 function displayPersonInfo(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

- o Create a function: Person inputPersonInfo (String name,String address, String sSalary) throws Exception

  - Input:

    - name: name of Person

    - address: address of 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.
- 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