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import java.util.Scanner;

public class InputManager {

    //The person manager is used in every method, so we use it as a global
class variable:
    private PersonManager manager;

    public InputManager(){

        manager = new PersonManager();
    }

    /**
     * Method to deal with main menu for user:
     */
    public void controlMenu(){
        int choice = -1;
        Scanner reader2 = new Scanner(System.in);

        System.out.print("> "); // print prompt
        System.out.println("Person Info System");

        //It needs a do-while loop so we can use the menu more than once.
        do {
            System.out.println("Select functions: ");
            System.out.println("[1] Enter person");
            System.out.println("[2] Search person");
            System.out.println("[3] Print person");
            System.out.println("[0] End program");
            choice = reader2.nextInt(); //reads input
            switch ( choice ) {
                case 0:
                    System.out.println("Menu:");
                    break;
                case 1:
                    addPersonInput();
                    break;
                case 2:
                    searchPerson();
                    break;
                case 3:
                    //printPerson(); //does not exist yet !
            }
        } while ( choice != 0 );
    }

    /**
     * Reads user input with a scanner and gives it to person manager:
     */

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public void addPersonInput(){

    String inputLine; // will hold the full input line
    String firstName = null;
    String secondName = null;

    System.out.print("> "); // print prompt
    System.out.println("Enter first and second name, then press Enter :");

    Scanner reader = new Scanner(System.in);

    //IMPORTANT: here we create one person object, because we add one
    //person in this method:
    Person person = new Person();

    boolean finished = false; //flag to say when we are finished with
entering
    while (!finished) {
        //gets next line of input
        inputLine = reader.nextLine();

        // This is a 2nd scanner so we can analyze the input line and
break it into
        // more than one string input:
        Scanner tokenizer = new Scanner(inputLine);
        if(tokenizer.hasNext()) {
            firstName = tokenizer.next(); // get first word
            //you can also get more words, etc, by using the hasNext
method:
            if(tokenizer.hasNext()) {
                secondName = tokenizer.next(); // get second word
                // note: we just ignore the rest of the input line.
                // now we enter data into person object:
                person.addFirstName(firstName);
                person.addName(secondName);
            }
        }

        System.out.println("Thank you, now enter address, then press
Enter :");
        inputLine = reader.nextLine();

        //RISK: we assume the user has entered something useful and add
it to person:
        person.addAddress(inputLine);
        //and now we tell the manager to add the person into the LIST:
        manager.addPersonInList(person);
        System.out.println("Person has been entered!");
        finished = true;
    }
}

/**
 * Uses input from user to search with first name:
 */

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public void searchPerson(){  
    String inputLine;    // will hold the full input line  
  
    System.out.print("> ");    // print prompt  
    System.out.println("SEARCH person with first name: Enter first, then  
press Enter :");  
  
    Scanner reader = new Scanner(System.in);  
  
    inputLine = reader.nextLine();  
  
    //let the manager do all the work:  
    manager.searchPerson(inputLine);  
}  
  
}
```