LAB211 Assignment

Type: Short Assignment Code: J1.S.P0011

LOC: 64 Slot(s): 2

Title

Develop the Contact Management Program.

Background

N/A

Program Specifications

Write a program to manage contacts as follows:

CONTACT MANAGEMENT

- 1. Add a contact
- 2. Display all contacts
- 3. Delete a contact
- 4. Exit

Please choose:

User's options:

1. If user chooses number 1, let them add a contact include **ID** (int), **fullname** (String), **group** (String), **address** (String), **phone** (String), **lastName** (String), **firstname** (String), In there Id is automatically inscreasing (means new contact has ID equal to last ID contact + 1), the first contact has ID: 1, firstname, lastname are taken from name by the first space.

2. If user chooses number 2, program will display the list of following data:

++	First Name	+ Last Name +	Group	+ Address +	+ Phone +	+
				•	1234567890	ļ
		· -			1234567890 1234567890	
++		+		+	+	+

- 3. If user chooses 3, program will require to enter the contact ID which needs to be deleted, if ID does not exist, program will display a message as "No found contact".
- 4. If user chooses number 4: Exit the program.

Note: A phone number only has the following format:

- 1234567890
- 123-456-7890
- 123-456-7890 x1234
- 123-456-7890 ext1234
- (123)-456-7890
- 123.456.7890
- 123 456 7890

Function details:

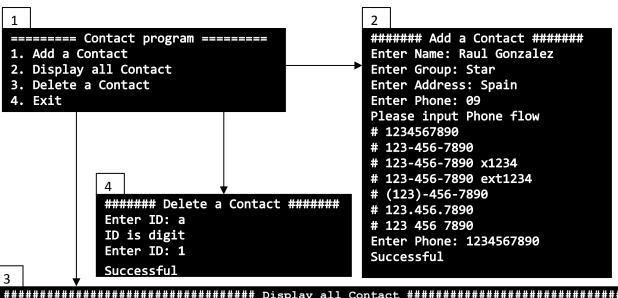
Function 1: Display a menu and ask users to select an option.

- User runs the program. The program prompts users to select an option.
- User selects an option, perform Function 2.

Function 2: Perform function based on the selected option.

- Option 1: Add contact
 - o Require to input task information including "name, group, address, phone".
 - Check valid data with the conditions below:
 - Phone number has to input the right format
 - Add contact to the program.
 - o Return to the main screen.
- Option 2: Display the contact
 - Display all the contacts
 - o Return to the program
- Option 3: Delete contact
 - o Require the ID which you need to delete
 - Check valid data with the conditions below:
 - ID has to exist and is a number
- Option 4: Exit the program.

Expectation of User interface:



######################################								
++	+	-+	-+	-+	-+			
ID Name	First Name	Last Name	Group	Address	Phone			
++	+	+	-+	-+	-+			
1 Iker Casillas	Iker	Casillas	Star	Spain	1234567890			
2 John Terry	John	Terry	Star	England	1234567890			
3 Raul Gonzalez	Raul	Gonzalez	Star	Spain	1234567890			
++	+	+	+	+	+			

Guidelines

Student must implement methods

- addContact
- displayAll
- deleteContact

in startup code.

Suggestion:

Function 1: Add a contact.

- Implement the function: public boolean addContact(List<Contact> list, Contact contact)
 - Input:
 - ➤ list: where contains the contacts
 - > contact: Contact's information.
 - Return value: to be more one contact status.

Function 2: Display the contacts list.

- o Implement the function: public void displayAll(List< Contact > list)
 - Input:
 - ➤ list: Contact list
 - Return value: void.

Function 3: Delete contact

- o Implement the function: public boolean deleteContact(List<Contact> list, Contact contact)
 - Input:
 - > list: list of contact.
 - > contact: the contact which we want to delete.
 - Return value: Delete contact status