

I have structured this assignment differently from the previous HW7.

When you run the code through Java Main, the terminal displays the following menu:

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```

When you select option 1, you will be prompted to enter a name, phone number, and email address. If an invalid value is entered, the handler ensures the user is prompted to enter the information again.

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 1
Enter name: Seongbin
Enter phone: 1234
Enter email: bins
Invalid email format. Please try again.
Enter name: Seongbin
Enter phone: 1234
Enter email: bins506@naver.com
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```










Selecting option 2 displays the currently entered contacts.

```
Enter your choice: 2
1. Name: Seongbin, Phone: 1234, Email: bins506@naver.com
Menu:
```

When you select option 3, the current contact list is saved to a file as shown below.


```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 3
Enter filename to save: save2
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```

▼ HW9

	Contact.class	
	Contact.java	
	Contacts.class	
	Contacts.java	1
	Main.class	
	Main.java	1
	need.txt	
	save	
	save2	

Selecting option 4 allows you to enter the name of a file to load contacts from that file.

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 4
Enter filename to load: need.txt
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 2
1. Name: Seongbin, Phone: 1234, Email: bins506@naver.com
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```

 need.txt

1	Seongbin,1234,bins506@naver.com
---	---------------------------------

When you select option 5, the contacts are saved to a binary file as shown below.

```
1. Name: Seongbin, Phone: 1234, Email: bins506@naver.com
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 5
Enter filename to save: bin2
```

HW9

bin

bin2

Contact.class

Contact.java

Contacts.class

Contacts.java 1

Main.class

Main.java 1

need.txt

save

save2

Selecting option 6, when there were initially no contacts, loads new contacts from a binary file as shown below.

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 2
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 6
Enter filename to load: bin2
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 2
1. Name: Seongbin, Phone: 1234, Email: bins506@naver.com
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```

When you select option 7, the current contacts are displayed, and you can delete a contact by entering its number.

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 7
1. Name: Seongbin, Phone: 1234, Email: bins506@naver.com
Enter the number of the contact to delete: 1
Contact removed.
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 2
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: █
```

Selecting option 8 exits the program.

```
Menu:
1. Add Contact
2. Display Contacts
3. Save Contacts to Text File
4. Load Contacts from Text File
5. Save Contacts to Binary File
6. Load Contacts from Binary File
7. Delete Contact
8. Exit
Enter your choice: 8
Exiting...
liam@Liamui-MacBookPro ~/Desktop/24-1/Java/hw9
```