

TASK # 02

“Contact Management System”

Overview:

Java code implements a simple Friend Management System using object-oriented principles. Users can perform operations such as adding, removing, updating, and displaying contacts and friends.

Key Classes:

Following classes are used in this program.

1. MyContact
 - Represents a contact with attributes like name, phone number, and friend status.
 - Provides methods for getting and setting contact details, updating information, and generating a string representation.
2. MyFriendManagementSystem:
 - Manages a list of contacts.
 - Supports operations like adding, removing, updating, and displaying contacts and friends.
 - Includes methods for searching contacts, updating contact details, and displaying non-friend contacts.
3. MyFriendManagementSystemApp:
 - The main application class where user interactions take place.
 - Utilizes a Scanner for user input and a do-while loop for a menu-driven interface.
 - Implements cases for various operations such as adding, removing, and updating contacts, displaying lists, and searching.

Enhancements:

1. User-Friendly Prompts
 - Updated menu prompts to make them more user-friendly and descriptive.
 - Added personalized prompts for operations like adding a new contact and removing a contact.

Additional Operation: Display Non-Friend Contacts:

Introduced a new feature to display non-friend contacts, providing more comprehensive information.

Code Refactoring:

- Renamed classes and methods for clarity.
- Improved readability by updating variable names and refining prompt messages.

Output:

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 1
Enter the name of the new contact: stephen
Enter the phone number for stephen: +74847832556777
Would you like to add stephen as your friend? (yes/no): yes
stephen has been added to your contact list.
stephen has been marked as your friend.
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 3
Here are your contacts:
Name: stephen, Phone Number: +74847832556777, Friend: Yes
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 4
Your Friends:
Name: stephen, Phone Number: +74847832556777, Friend: Yes
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 5
Enter the name to search for: stephen
Contact found:
Name: stephen, Phone Number: +74847832556777, Friend: Yes
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 6
Enter the name of the contact to update: stephen
```

```
Enter the name of the contact to update: stephen
Enter the new name: wictor
Enter the new phone number: +7346853823
Contact details updated:
Name: wictor, Phone Number: +7346853823, Friend: Yes
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
7. Display non-friend contacts
8. Exit
Please enter the operation you want to perform: 7
You currently have no non-friend contacts.
```

```
Menu:
1. do you want to add new contact?
2. do you want to remove a contact?
3. show all the contacts
4. show friends list
5. Search for a friend number
6. Update contact information
```