

## TASK 3

### CONTACT

```
package ElliteTech;
import java.util.ArrayList;
import java.util.Scanner;

class Contact {
    private String name;
    private String phone;
    private String email;

    public Contact(String name, String phone, String email) {
        this.name = name;
        this.phone = phone;
        this.email = email;
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getPhone() {
        return phone;
    }

    public void setPhone(String phone) {
        this.phone = phone;
    }

    public String getEmail() {
        return email;
    }

    public void setEmail(String email) {
        this.email = email;
    }

    @Override
    public String toString() {
        return "Name: " + name + ", Phone: " + phone + ", Email: " + email;
    }
}
```

# ContactManager

```
package ElliteTech;

import java.util.ArrayList;
import java.util.Scanner;

public class ContactManager {

    private static ArrayList<Contact> contacts = new ArrayList<>();

    public static void main(String[] args) {
        Scanner scanner = new Scanner(System.in);
        int choice = 0;

        do {
            System.out.println("\nContact Manager Menu:");
            System.out.println("1. Add New Contact");
            System.out.println("2. View Contacts");
            System.out.println("3. Edit Contact");
            System.out.println("4. Delete Contact");
            System.out.println("5. Exit");
            System.out.print("Enter your choice: ");

            if (scanner.hasNextInt()) {
                choice = scanner.nextInt();
                scanner.nextLine(); // Consume newline
            } else {
                System.out.println("Invalid input. Please enter a number between 1
and 5.");
                scanner.nextLine(); // Clear invalid input
                continue;
            }

            switch (choice) {
                case 1:
                    addContact(scanner);
                    break;
                case 2:
                    viewContacts();
                    break;
                case 3:
                    editContact(scanner);
                    break;
                case 4:
                    deleteContact(scanner);
                    break;
                case 5:
                    System.out.println("Exiting Contact Manager. Goodbye!");
                    break;
                default:
                    System.out.println("Invalid choice. Please try again.");
            }
        } while (choice != 5);

        scanner.close();
    }
}
```

```

private static void addContact(Scanner scanner) {
    System.out.print("Enter Name: ");
    String name = scanner.nextLine();
    System.out.print("Enter Phone: ");
    String phone = scanner.nextLine();
    System.out.print("Enter Email: ");
    String email = scanner.nextLine();

    contacts.add(new Contact(name, phone, email));
    System.out.println("Contact added successfully.");
}

private static void viewContacts() {
    if (contacts.isEmpty()) {
        System.out.println("No contacts available.");
    } else {
        System.out.println("\nContact List:");
        for (int i = 0; i < contacts.size(); i++) {
            System.out.println((i + 1) + ". " + contacts.get(i));
        }
    }
}

private static void editContact(Scanner scanner) {
    viewContacts();
    if (!contacts.isEmpty()) {
        System.out.print("Enter the number of the contact to edit: ");
        if (scanner.hasNextInt()) {
            int index = scanner.nextInt() - 1;
            scanner.nextLine(); // Consume newline

            if (index >= 0 && index < contacts.size()) {
                Contact contact = contacts.get(index);

                System.out.print("Enter new name (or press Enter to keep \"" +
contact.getName() + "\"): ");
                String newName = scanner.nextLine();
                if (!newName.isEmpty()) {
                    contact.setName(newName);
                }

                System.out.print("Enter new phone (or press Enter to keep \"" +
+ contact.getPhone() + "\"): ");
                String newPhone = scanner.nextLine();
                if (!newPhone.isEmpty()) {
                    contact.setPhone(newPhone);
                }

                System.out.print("Enter new email (or press Enter to keep \"" +
+ contact.getEmail() + "\"): ");
                String newEmail = scanner.nextLine();
                if (!newEmail.isEmpty()) {
                    contact.setEmail(newEmail);
                }

                System.out.println("Contact updated successfully.");
            } else {
                System.out.println("Invalid contact number.");
            }
        }
    }
}

```

```

    }
    } else {
        System.out.println("Invalid input. Please enter a valid number.");
        scanner.nextLine(); // Clear invalid input
    }
}

private static void deleteContact(Scanner scanner) {
    viewContacts();
    if (!contacts.isEmpty()) {
        System.out.print("Enter the number of the contact to delete: ");
        if (scanner.hasNextInt()) {
            int index = scanner.nextInt() - 1;

            if (index >= 0 && index < contacts.size()) {
                contacts.remove(index);
                System.out.println("Contact deleted successfully.");
            } else {
                System.out.println("Invalid contact number.");
            }
        } else {
            System.out.println("Invalid input. Please enter a valid number.");
            scanner.nextLine(); // Clear invalid input
        }
    }
}
}

```

## OUTPUT:

Contact Manager Menu:

1. Add New Contact
2. View Contacts
3. Edit Contact
4. Delete Contact
5. Exit

Enter your choice: 1

Enter Name: Bhavyashree

Enter Phone: 6363188391

Enter Email: bhavyamungal@gmail.com

Contact added successfully.

Contact Manager Menu:

1. Add New Contact
2. View Contacts
3. Edit Contact
4. Delete Contact
5. Exit

Enter your choice: 2

Contact List:

1. Name: Bhavyashree, Phone: 6363188391, Email: bhavyamungal@gmail.com

Contact Manager Menu:

1. Add New Contact

2. View Contacts
3. Edit Contact
4. Delete Contact
5. Exit

Enter your choice: 3

Contact List:

1. Name: Bhavyashree, Phone: 6363188391, Email: bhavyamungal@gmail.com

Enter the number of the contact to edit: Bhavya

Invalid input. Please enter a valid number.

Contact Manager Menu:

1. Add New Contact
2. View Contacts
3. Edit Contact
4. Delete Contact
5. Exit

Enter your choice: 4

Contact List:

1. Name: Bhavyashree, Phone: 6363188391, Email: bhavyamungal@gmail.com

Enter the number of the contact to delete: 5

Invalid contact number.

Contact Manager Menu:

1. Add New Contact
2. View Contacts
3. Edit Contact
4. Delete Contact
5. Exit

Enter your choice: