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Program Testing: Screenshot based functionality testing with a short description of each test. You can use the same format for testing that you used in COIS 1020H.

```
PS C:\Users\diksh\Desktop\COIS 2240H\Lab_2\COIS2240Lab2> & 'C:\Program Files\Amazon Corretto\jdk21.0.2_13\bin\java.exe' '-agentlib:jdwp=transport=dt_socket,server=n, address=localhost:54819' '--enable-preview' '-XX:+ShowCodebetailsInExceptionMessages' '-cp' 'C:\Users\diksh\AppData\Roaming\Code\User\workspaceStorage\Ra58a9af32d6dcaecbc8sAredhat.java\jdt_us\COIS2240Lab2_ae6tbaSa\bin' 'Program' Listing all contacts:
Contact{name='Aladdin', email='aladdin@example.com', phoneNumber='123-456-7890'}
Contact{name='Bob', email='bob@example.com', phoneNumber='098-765-4321'}
Removing Aladdin and attempting to remove non-existing contact:
Contact for found!

Listing all contacts after removal:
Contact{name='Bob', email='bob@example.com', phoneNumber='098-765-4321'}
Listing all contacts after adding Charlie:
Contact{name='Bob', email='bob@example.com', phoneNumber='098-765-4321'}
Contact{name='Bob', email='bob@example.com', phoneNumber='098-765-4321'}
Sc:\Users\diksh\Desktop\COIS 2240H\Lab_2\COIS2240Lab2>
```

Copy and paste your code below:

Program.java

```
public class Program {
    public static void main(String[] args) {
        ContactManager manager = new ContactManager();

        // Add contacts
        manager.addContact(new Contact("Aladdin", "aladdin@example.com", "123-456-7890"));
        manager.addContact(new Contact("Bob", "bob@example.com", "098-765-4321"));

        // List contacts
        System.out.println("Listing all contacts:");
        manager.listContacts();

        // Remove a contact and show attempt to remove non-existing contact
```

```
System.out.println("\nRemoving Aladdin and attempting to remove non-
existing contact:");
    manager.removeContact("Aladdin");
    manager.removeContact("Charlie"); // This contact does not exist

    // List contacts again to see the change
    System.out.println("\nListing all contacts after removal:");
    manager.listContacts();

    // Add another contact and list again
    manager.addContact(new Contact("Charlie", "charlie@example.com", "321-654-0987"));
    System.out.println("\nListing all contacts after adding Charlie:");
    manager.listContacts();
}
```

ContactManager.java

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
// Define the ContactManager class
class ContactManager {
   // List to store Contact objects
    private List<Contact> contacts;
    // Constructor to initialize the ContactManager
    public ContactManager() {
        contacts = new ArrayList<>();
    // Method to add a new Contact
    public void addContact(Contact contact) {
        contacts.add(contact);
    // Method to remove a Contact by name
    public void removeContact(String name) {
        Contact contactToRemove = null;
        for (Contact contact: contacts) {
```

Contact.java

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.List;
// Define the Contact class
class Contact {
    // Properties of the Contact class
   private String name;
    private String email;
    private String phoneNumber;
    // Constructor to initialize a new Contact object
    public Contact(String name, String email, String phoneNumber) {
        this.name = name;
        this.email = email;
        this.phoneNumber = phoneNumber;
    // Implement the toString method for Contact
    @Override
    public String toString() {
```

Prove using a screenshot that you cloned the github repository using the tool with VS Code (or the IDE that you picked instead of VS Code):

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```

Prove using a screenshot that you successfully created a pull request:

