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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.

A computer screen with text

Description automatically generated

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) {

            if (contact.getName().equals(name)) {

                contactToRemove = contact;

                break;

            }

        }

        if (contactToRemove != null) {

            contacts.remove(contactToRemove);

        } else {

            System.out.println("Contact not found!");

        }

    }

    // Method to list all Contacts

    public void listContacts() {

        for (Contact contact : contacts) {

            System.out.println(contact);

        }

    }

}

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() {

        return "Contact{" +

                "name='" + name + '\'' +

                ", email='" + email + '\'' +

                ", phoneNumber='" + phoneNumber + '\'' +

                '}';

    }

    public String getName() {

        return name;

    }

    public void setName(String name) {

        this.name = name;

    }

}

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):

A screenshot of a computer program

Description automatically generated

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

A screenshot of a computer

Description automatically generated