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1/*
2*Assignment01-Q5
3*AIM :Create a application that displays Contact Manager
  Menu
4*NAME:SAGARIKA SRIVASTAVA
5*UIN :231P047
6*ROLL NO : 44
7*Div:A
8*/
9package JAVA_EXPS ;
10import java.util.Scanner;
11class Contact
12 {
13     private String name;
14     private String phoneNumber;
15
16     public Contact(String name, String phoneNumber)
17     {
18         this.name = name;
19         this.phoneNumber = phoneNumber;
20     }
21
22     public String getName()
23     {
24         return name;
25     }
26
27     public String getPhoneNumber()
28     {
29         return phoneNumber;
30     }
31
32     @Override public String toString()
33     {
34
```

```
35         return "Name: " + name + ", Phone Number: " +
    phoneNumber;
36     }
37 }
38
39 public class ContactManager
40 {
41     private Vector<Contact> contacts;
42     public ContactManager()
43     {
44         contacts = new Vector<>();
45     }
46     public void addContact(String name, String phoneNumber)
47     {
48         contacts.add(new Contact(name, phoneNumber));
49         System.out.println("Contact added: " + name);
50     }
51     public void removeContact(String name)
52     {
53         for (int i = 0; i < contacts.size(); i++)
54         {
55             if (contacts.get(i).getName().equalsIgnoreCase
    (name))
56             {
57                 contacts.remove(i);
58                 System.out.println("Contact removed: " + name);
59                 return;
60             }
61         }
62         System.out.println("Contact not found: " + name);
63     }
64     public void displayAllContacts()
65     {
66         if (contacts.isEmpty())
```

```
67     {
68         System.out.println("Contact list is empty.");
69     }
70     else
71     {
72         System.out.println("Contacts:");
73         for (Contact contact : contacts)
74         {
75             System.out.println(contact);
76         }
77     }
78 }
79 public void searchContact(String name)
80 {
81     for (Contact contact : contacts)
82     {
83         if (contact.getName().equalsIgnoreCase(name))
84         {
85             System.out.println("Contact found: " +
86 contact);
87             return;
88         }
89         System.out.println("Contact not found: " + name);
90     }
91 }
92 public static void main(String[] args)
93 {
94
95     Scanner scanner = new Scanner(System.in);
96     ContactManager manager = new ContactManager();
97
98     int choice;
99     do {
```

```
100
101     System.out.println("Contact Manager Menu:");
102     System.out.println("1.Add a Contact");
103     System.out.println("2.Remove a Contact");
104     System.out.println("3.Display All Contacts");
105     System.out.println("4.Search for a Contact");
106     System.out.println("5.Exit");
107
108     System.out.print("Enter your choice: ");
109     choice = scanner.nextInt();
110     scanner.nextLine();
111
112     switch (choice)
113     {
114         case 1:
115             System.out.print("Enter contact name: ");
116             String nameToAdd = scanner.nextLine();
117             System.out.print("Enter phone number: ");
118             String phoneToAdd = scanner.nextLine();
119             manager.addContact(nameToAdd, phoneToAdd);
120             break;
121
122         case 2:
123             System.out.print("Enter contact name to
124 remove: ");
125             String nameToRemove = scanner.nextLine();
126             manager.removeContact(nameToRemove);
127             break;
128
129         case 3:
130             manager.displayAllContacts();
131             break;
132
133         case 4:
```

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133         System.out.print("Enter contact name to  
search: ");  
134         String nameToSearch = scanner.nextLine();  
135         manager.searchContact(nameToSearch);  
136         break;  
137  
138         case 5:  
139             System.out.println("\nThank You!");  
140             System.out.println("\nName:SAGARIKA SRIVASTAVA  
        \nUIN:231P047\nROLL NO:44\n");  
141             break;  
142  
143         default:  
144             System.out.println("Invalid choice. Please try  
again.");  
145     }  
146 } while(choice != 5);  
147 scanner.close();  
148 }  
149 }  
150
```