**package** com.company;  
  
**import** java.io.BufferedReader;  
**import** java.io.InputStreamReader;  
**import** java.security.cert.TrustAnchor;  
**import** java.util.Scanner;  
  
**public class** Main {  
 **public static** Scanner *scanner*=**new** Scanner(System.***in***);  
 **public static** BufferedReader *bufferedReader*=**new** BufferedReader(**new** InputStreamReader(System.***in***));  
  
 **public static void** main(String[] args) {  
 Mobile mobile = **new** Mobile();  
  
 mobile.*showMenu*();  
 System.***out***.println(**"please select any : "**);  
 **int** choose=mobile.*pushMenu*();  
 **do** {  
 **switch** (choose) {  
 **case** 1:  
 System.***out***.println(**"Enter the name to be searched"**);  
 String name = *scanner*.next();  
 mobile.searchContact1(name);  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 **case** 2:  
 System.***out***.println(**"your full cotact list is here"**);  
 mobile.searchContact();  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 **case** 3:  
 System.***out***.println(**"Enter the name to be updated"**);  
 String nameN = *scanner*.next();  
 mobile.nameModify(nameN);  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 **case** 4:  
 System.***out***.println(**"Enter the name to update anyones phone no"**);  
 String nameP = *scanner*.next();  
 mobile.numberModify(nameP);  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 **case** 5:  
 System.***out***.println(**"Adding friends in contact"**);  
 **boolean** cont = **true**;  
 **while** (cont == **true**) {  
 System.***out***.println(**"enter name"**);  
 String nm = *scanner*.next();  
 **if** (nm != **null**) {  
 System.***out***.println(**"enter phone no"**);  
 String ph = *scanner*.next();  
 mobile.saveNumber(**new** Contact(nm, ph));  
 System.***out***.println(**"One contact has been added"**);  
 } **else** {  
 System.***out***.println(**"missed the name"**);  
 }  
 System.***out***.println(**"wanna add more ? type YES else NO"**);  
 String on = *scanner*.next().toLowerCase();  
 String ys = **"yes"**;  
 **if** (on.equals(ys)) {  
 cont = **true**;  
 } **else** {  
 cont = **false**;  
 }  
 }  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 **case** 6:  
 System.***out***.println(**"Remove an item"**);  
 String rem = *scanner*.next();  
 mobile.contactRemove(rem);  
 System.***out***.println(**"whats on your mind?, "**);  
 choose = mobile.*pushMenu*();  
 **break**;  
 }  
 }**while** (choose != 0);  
 }  
  
}

**package** com.company;  
  
**import** java.util.ArrayList;  
**import** java.util.Scanner;  
  
**public class** Mobile {  
  
 **private static** ArrayList<String> *arrayList*=**new** ArrayList<String>();  
 **private static** ArrayList<String> *arrayList1*=**new** ArrayList<String>();  
 **public static** Scanner *scanner*=**new** Scanner(System.***in***);  
  
 **public void** saveNumber(Contact contact){  
 *arrayList*.add(contact.getName());  
 *arrayList1*.add(contact.getNumber());  
 }  
 **private** String searchContact(String name){ *//finding a perticular name* **if** (*arrayList*.contains(name)) *//if exists* **return** name; *//sending through it* **else  
 return "no contacts found"**;  
 }  
 **public void** searchContact1(String nm){ *//showing conditional names and ph* String name=searchContact(nm);  
 **if** (name != **null**){  
 **int** index=*arrayList*.indexOf(name); *//finding the index, as a name and ph no is stored parallely* String conName=*arrayList*.get(index); *//so name's index will be same as ph nos' index* String conPhone=*arrayList1*.get(index);*// getting ph nos by same index as name* System.***out***.println(**" Name : "** + conName + **" Phone No : "** +conPhone);  
 }  
 }  
 **public void** searchContact(){ *//showing full contact list* **int** i = *arrayList*.size();  
 **for** (**int** j=0;j<i;j++){  
 System.***out***.println(**"Name : "** + *arrayList*.get(j) + **" Phone no : "** + *arrayList1*.get(j));  
 }  
 }  
 **public void** nameModify(String name){  
 String nm=searchContact(name);  
 **if** (nm != **"no contacts found"**) {  
 System.***out***.println(**"Enter the new Name : "**);  
 String newnm = *scanner*.next(); *//taking input from console* **int** x = *arrayList*.indexOf(nm); *//getting index  
 arrayList*.set(x, newnm); *//setting value* searchContact(); *//showing result* }  
 }  
 **public void** numberModify(String name){  
 String nm = searchContact(name);  
 **if** (nm != **"no contacts found"**) {  
 System.***out***.println(**"Enter the new number : "**);  
 String newnm = *scanner*.next(); *//taking input from console* **int** x = *arrayList*.indexOf(nm); *//getting index of arraylist that is parallel with arraylist1  
 arrayList1*.set(x, newnm); *//setting value* searchContact(); *//showing result* }  
 }  
 **public void** contactRemove(String name){  
 String nm = searchContact(name);  
 **if** (nm != **"no contacts found"**){  
 **int** x = *arrayList*.indexOf(nm);  
 *arrayList*.remove(x);  
 *arrayList1*.remove(x);  
 System.***out***.println(**"Successfully removed "** + name);  
 searchContact();  
 }  
 }

**public static void** showMenu(){  
 System.***out***.println(**"press 1 : Find a particular name in the list"**);  
 System.***out***.println(**"press 2 : Find the whole list"**);  
 System.***out***.println(**"press 3 : Update a name"**);  
 System.***out***.println(**"press 4 : Update a phone number"**);  
 System.***out***.println(**"press 5 : Add name in the list"**);  
 System.***out***.println(**"press 6 : Remove a particular name in the list"**);  
 }  
 **public static int** pushMenu(){  
 **int** cn = *scanner*.nextInt();  
 **return** cn;  
 }  
}

press 1 : Find a particular name in the list

press 2 : Find the whole list

press 3 : Update a name

press 4 : Update a phone number

press 5 : Add name in the list

press 6 : Remove a particular name in the list

please select any :

5

Adding friends in contact

enter name

a

enter phone no

1111

One contact has been added

wanna add more ? type YES else NO

yes

enter name

b

enter phone no

2222

One contact has been added

wanna add more ? type YES else NO

yes

enter name

c

enter phone no

3333

One contact has been added

wanna add more ? type YES else NO

no

whats on your mind?,

2

your full cotact list is here

Name : a Phone no : 1111

Name : b Phone no : 2222

Name : c Phone no : 3333

whats on your mind?,

1

Enter the name to be searched

b

Name : b Phone No : 2222

whats on your mind?,

3

Enter the name to be updated

c

Enter the new Name :

K

Name : a Phone no : 1111

Name : b Phone no : 2222

Name : K Phone no : 3333

whats on your mind?,

4

Enter the name to update anyones phone no

a

Enter the new number :

8888

Name : a Phone no : 8888

Name : b Phone no : 2222

Name : K Phone no : 3333

whats on your mind?,

6

Remove an item

K

Successfully removed K

Name : a Phone no : 8888

Name : b Phone no : 2222

whats on your mind?,

5

Adding friends in contact

enter name

X

enter phone no

9999

One contact has been added

wanna add more ? type YES else NO

no

whats on your mind?,

2

your full cotact list is here

Name : a Phone no : 8888

Name : b Phone no : 2222

Name : X Phone no : 9999

whats on your mind?,

mobile.saveNumber(new Contact("Soham", "7458965411"));

mobile.saveNumber(new Contact("Ivy", "7458965412"));

mobile.saveNumber(new Contact("Sree", "745896543"));

mobile.saveNumber(new Contact("Ankita", "7458965414"));

mobile.searchContact1("Ankita");

System.out.println();

mobile.searchContact();

// System.out.println();

// mobile.nameModify("Ivy");

// System.out.println();

// mobile.numberModify("Sree");

System.out.println();

mobile.contactRemove("Sree");