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public class Phone{
    public String name,number;
    public void display(){
        System.out.println("Name: "+name);
        System.out.println("Number: "+number);
    }
}

public class PhoneBook{
    Phone[] phones=new Phone[10];
    {for(int i=0;i<10;i++) phones[i]=new Phone();}
    public void add(String name,String number){
        int i;
        for(i=0;i<10;i++){
            if(phones[i].name==null){
                phones[i].name=name;
                phones[i].number=number;
                break;
            }
        }
        if(i==10) System.out.println("Sorry! No space left.");
    }
    public void update(String name,String number){
        int i;
        for(i=0;i<10;i++){
            if(phones[i].name==null) break;
            else if(phones[i].name.equals(name)==true){
                phones[i].number=number;
                break;
            }
        }
        if(i==10 || phones[i].name==null) System.out.println("Sorry!No contacts of this name.");
    }
    public void display(){
        System.out.println("All contacts:\n");
        for(int i=0;i<10;i++)
            if(phones[i].name!=null) phones[i].display();
    }
}

import java.util.Scanner;
public class PhoneBookApp{
    public static void main(String[] args){
        Scanner scan = new Scanner(System.in);
        Scanner scans= new Scanner(System.in);
        PhoneBook book=new PhoneBook();
        while(true){
            System.out.println("\n"+"Enter “1”, to display the records.\n"+"Enter “2”, to add
new phone number.\n"+"Enter “3”, to update phone number.\n"+"Enter “0”, to exit the system.\n");
            int a;
            a=scan.nextInt();

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        if(a==1)book.display();
        if(a==2){
            System.out.println("To add new contacts enter Name and Phone number:");
            String na=scans.nextLine();
            String nu=scans.nextLine();
            book.add(na,nu);
        }
        if(a==3){
            System.out.println("To update exsisting contacts enter Name and the new Phone number:");
            String na=scans.nextLine();
            String nu=scans.nextLine();
            book.update(na,nu);
        }
        if(a==0) break;
    }
}

```

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Enter "1", to display the records.
Enter "2", to add new phone number.
Enter "3", to update phone number.
Enter "0", to exit the system.

2
To add new contacts enter Name and Phone number:
a
1

Enter "1", to display the records.
Enter "2", to add new phone number.
Enter "3", to update phone number.
Enter "0", to exit the system.

2
To add new contacts enter Name and Phone number:
b
5

Enter "1", to display the records.
Enter "2", to add new phone number.
Enter "3", to update phone number.
Enter "0", to exit the system.

3
To update exsisting contacts enter Name and the new Phone number:
a
10

Enter "1", to display the records.
Enter "2", to add new phone number.
Enter "3", to update phone number.
Enter "0", to exit the system.

1
All contacts:

Name: a
Number: 10
Name: b
Number: 5

```