

Source code:

```
1 package tugasArrayList;
2
3 import java.util.Scanner;
4 import java.util.ArrayList;
5
6 public class TugasArrayList {
7     public static void main(String[] args) {
8         Scanner input = new Scanner(System.in);
9
10        ArrayList<String> name = new ArrayList<String>();
11        ArrayList<String> pass = new ArrayList<String>();
12        ArrayList<String> phone = new ArrayList<String>();
13
14        int choice = 0;
15
16        while(choice != 4) {
17            System.out.println("ArrayList Raynard Chandrawangsa");
18
19            System.out.println("1. Input Data");
20            System.out.println("2. Show Data");
21            System.out.println("3. Delete Data");
22            System.out.println("4. Exit");
23            System.out.print("Your choice: ");
24
25            choice = input.nextInt();
26            input.nextLine();
27
28            if(choice == 1) {
29                String newName;
30                String newPass;
31                String newPhone;
32
33                System.out.print("Name : ");
34                newName = input.nextLine();
35
36                System.out.print("Pass : ");
37                newPass = input.nextLine();
38
39                System.out.print("Phone : ");
40                newPhone = input.nextLine();
41
42                name.add(newName);
43                pass.add(newPass);
44                phone.add(newPhone);
45
46                System.out.println("New data is added\n");
47            }
48            else if(choice == 2) {
49                System.out.println("=====");
50                System.out.printf("|No| %21s | %21s | %21s |\n", "Name", "Pass", "Phone");
```

```

51     System.out.println("|=====|");
52
53     if(name.isEmpty()) {
54         System.out.println("                |No data exists|\n");
55         continue;
56     }
57
58     for(int i = 0; i < name.size(); i++) {
59         System.out.printf("|%2d| %21s | %21s | %21s |\n", i + 1, name.get(i), pass.get(i), phone.get(i));
60     }
61
62     System.out.println("=====|\n");
63 }
64 else if(choice == 3) {
65     int ndelete;
66
67     System.out.println("=====|");
68     System.out.printf("|No| %21s | %21s | %21s |\n", "Name", "Pass", "Phone");
69     System.out.println("=====|");
70
71     if(name.isEmpty()) {
72         System.out.println("                |No data exists|\n");
73         continue;
74     }
75
76     for(int i = 0; i < name.size(); i++) {
77         System.out.printf("|%2d| %21s | %21s | %21s |\n", i + 1, name.get(i), pass.get(i), phone.get(i));
78     }
79
80     System.out.println("=====|");
81
82     System.out.print("Input data number to be deleted: ");
83     ndelete = input.nextInt();
84     input.nextLine();
85
86     name.remove(ndelete - 1);
87     pass.remove(ndelete - 1);
88     phone.remove(ndelete - 1);
89
90     System.out.println("Data is removed\n");
91 }
92 }
93 }
94 }

```

Hasil eksekusi program:

```
ArrayList Raynard Chandrawangsa
```

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 2

```
=====
|No|                Name |                Pass |                Phone |
|=====
|                |No data exists|
```

```
ArrayList Raynard Chandrawangsa
```

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 1

Name : AAAAAAA

Pass : aaaaaaa

Phone : 1111111

New data is added

```
ArrayList Raynard Chandrawangsa
```

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 1

Name : BBBBBBBBB

Pass : bbbbbbb

Phone : 2222222

New data is added

```
ArrayList Raynard Chandrawangsa
```

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 1

Name : CCCCCC

Pass : cccccccc

Phone : 333333

New data is added

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 2

No	Name	Pass	Phone
1	AAAAAAA	aaaaaaa	1111111
2	BBBBBBBB	bbbbbbb	2222222
3	CCCCCCC	cccccccc	333333

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 3

No	Name	Pass	Phone
1	AAAAAAA	aaaaaaa	1111111
2	BBBBBBBB	bbbbbbb	2222222
3	CCCCCCC	cccccccc	333333

Input data number to be deleted: 2

Data is removed

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 2

No	Name	Pass	Phone
1	AAAAAAA	aaaaaaa	1111111
2	CCCCCCC	cccccccc	333333

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 3

No	Name	Pass	Phone
1	AAAAAAA	aaaaaaa	1111111
2	CCCCCCC	cccccccc	333333

Input data number to be deleted: 1

Data is removed

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 2

No	Name	Pass	Phone
1	CCCCCCC	cccccccc	333333

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 3

No	Name	Pass	Phone
1	CCCCCCC	cccccccc	333333

Input data number to be deleted: 1

Data is removed

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 2

No	Name	Pass	Phone
No data exists			

ArrayList Raynard Chandrawangsa

1. Input Data
2. Show Data
3. Delete Data
4. Exit

Your choice: 4