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POSTTEST 2

SS Program

```
1 package posttest_2;
2
3 import java.util.ArrayList;
4 import java.util.Scanner;
5
6 public class Posttest_2 {
7     static ArrayList<Data> dataList = new ArrayList<>();
8     static Scanner scanner = new Scanner(System.in);
9
10    public static void main(String[] args){
11        while (true) {
12            System.out.println("=====");
13            System.out.println("==== Program Pendataan Zakat =====");
14            System.out.println("=====");
15            System.out.println("1. Tambah Data Zakat");
16            System.out.println("2. Tampilkan Data Zakat");
17            System.out.println("3. Edit Data Zakat");
18            System.out.println("4. Hapus Data Zakat");
19            System.out.println("5. Exit Program");
20            System.out.println("=====");
21            System.out.print("Pilihan: ");
22            int pilih = scanner.nextInt();
23
24            switch (pilih) {
25                case 1:
26                    addData();
27                    break;
28                case 2:
29                    showData();
30                    break;
31                case 3:
32                    updateData();
33                    break;
34                case 4:
35                    deleteData();
36                    break;
```

```

37         case 5:
38             System.out.println(x: "Terima kasih telah menggunakan program ini!");
39             System.exit(status:0);
40         default:
41             System.out.println(x: "Pilihan tidak valid!");
42     }
43 }
44 }
45
46 static void addData() {
47     System.out.println(x: "\n\tMenu Menambahkan Data ");
48     System.out.println(x: "=====");
49     System.out.print(s: "Nama Pembayar Zakat : ");
50     scanner.nextLine();
51     String nama = scanner.next();
52     System.out.print(s: "Tanggal(DD/MM/YYYY): ");
53     scanner.nextLine();
54     String tanggal = scanner.next();
55     System.out.print(s: "Gender : ");
56     scanner.nextLine();
57     String gender = scanner.next();
58     System.out.print(s: "Nominal : ");
59     int nominal = scanner.nextInt();
60
61
62     Data data = new Data(nama, tanggal, gender, nominal);
63     dataList.add(e: data);
64     System.out.println(x: "=====");
65     System.out.println(x: "Data berhasil ditambahkan!");
66 }
67
68 static void showData() { // Fungsi showData() untuk melihat data
69     System.out.println(x: "\n\tData Pembayar Zakat ");
70     System.out.println(x: "=====");
71     if (dataList.isEmpty()) {
72         System.out.println(x: "Belum ada data!");
73     } else {
74         for (int i = 0; i < dataList.size(); i++) {
75             System.out.println("\nData ke-" + (i + 1));
76             System.out.println(x: "=====");
77             System.out.println("Nama          : " + dataList.get(index: i).getNama());
78             System.out.println("Tanggal       : " + dataList.get(index: i).getTanggal());
79             System.out.println("Gender        : " + dataList.get(index: i).getGender());
80             System.out.println("Nominal       : " + dataList.get(index: i).getNominal());
81             System.out.println(x: "=====");
82         }
83     }
84 }
85
86 static void updateData() {
87     if (dataList.isEmpty()) {
88         System.out.println(x: "\nBelum ada data!");
89     } else {
90         showData();
91         System.out.print(s: "Nomor data yang akan diupdate: ");
92         int index = scanner.nextInt() - 1;
93
94         if (index < 0 || index >= dataList.size()) {
95             System.out.println(x: "Nomor data tidak valid!");
96         } else {
97             System.out.println(x: "\n\tMenu Mengubah Data ");
98             System.out.println(x: "=====");
99             System.out.print(s: "Masukkan Nama baru : ");
100             String nama = scanner.next();
101
102             System.out.print(s: "Masukkan Tanggal baru : ");
103             String tanggal = scanner.next();
104
105             System.out.print(s: "Masukkan Gender baru : ");
106             String gender = scanner.next();
107
108             System.out.print(s: "Masukkan Nominal baru : ");

```

```

109         int nominal = scanner.nextInt();
110
111         Data data = new Data(nama, tanggal, gender, nominal);
112         dataList.set(index, element: data); //ini setnya
113         System.out.println(x: "=====");
114         System.out.println(x: "Data berhasil diupdate!");
115     }
116 }
117
118
119 static void deleteData() {
120     if (dataList.isEmpty()) {
121         System.out.println(x: "\nBelum ada data!");
122     } else {
123         showData();
124         System.out.println(x: "\n\tMenu Menghapus Data ");
125         System.out.println(x: "=====");
126         System.out.print(s: "Nomor data yang akan dihapus: ");
127         int index = scanner.nextInt() - 1;
128
129         if (index < 0 || index >= dataList.size()) {
130             System.out.println(x: "Nomor data tidak valid!");
131         } else {
132             dataList.remove(index);
133             System.out.println(x: "=====");
134             System.out.println(x: "Data berhasil dihapus!");
135         }
136     }
137 }
138 }
139

```

```

1  package posttest_2;
2
3  class Data {
4      private String nama, tanggal, gender;
5      private int nominal;
6
7      [-] public Data(String nama, String tanggal, String gender, int nominal) {
8          this.nama = nama;
9          this.tanggal = tanggal;
10         this.gender = gender;
11         this.nominal = nominal;
12     }
13
14     [-] public String getNama() {
15         return nama;
16     }
17
18     [-] public void setNama(String nama) {
19         this.nama = nama;
20     }
21
22     [-] public String getTanggal() {
23         return tanggal;
24     }
25
26     [-] public void setTanggal(String tanggal) {
27         this.tanggal = tanggal;
28     }
29
30     [-] public String getGender() {
31         return gender;
32     }
33
34     [-] public void setGender(String gender) {
35         this.gender = gender;
36     }
37
38     [-] public int getNominal() {
39         return nominal;
40     }
41
42     [-] public void setNominal(int nominal) {
43         this.nominal = nominal;
44     }

```