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Kelas : C2

## POSTTEST 6

### Source Code

```
1 package posttest_6;
2
3 import java.io.BufferedReader;
4 import java.io.InputStreamReader;
5 import java.io.IOException;
6 import java.util.ArrayList;
7
8 public final class Posttest_6 {
9     static BufferedReader input = new BufferedReader(new InputStreamReader(in: System.in));
10    static ArrayList<Uang> listUang = new ArrayList<>();
11    static ArrayList<MakananPokok> listMK = new ArrayList<>();
12
13    public static void froze() throws IOException {
14        System.out.print(": Tekan enter untuk melanjutkan... ");
15        input.readLine();
16        System.out.println(": ");
17    }
18
19    public static void jenisZakat()
20    {
21        System.out.println(": | 1. Dengan Uang |");
22        System.out.println(": | 2. Dengan Makanan Pokok |");
23        System.out.println(": =====");
24    }
25
26    static final void display() {
27        System.out.println(": =====");
28        System.out.println(": ===== Jenis Pembayaran Zakat =====");
29        System.out.println(": =====");
30    }
31
32    public static void addData() throws IOException {
33        jenisZakat();
34        System.out.print(": Pilih Data: ");
35        int pil = Integer.parseInt(s: input.readLine());
36        if(pil == 1){
37            System.out.println(": \n\tMenu Menambahkan Data ");
38            System.out.println(": =====");
39            System.out.print(": Nama Pembayar Zakat : ");
40            String nama = input.readLine();
41            System.out.print(": Tanqqal (DD/MM/YYYY) : ");
```

```

41 String tanggal = input.readLine();
42 System.out.print(s: "Gender : ");
43 String gender = input.readLine();
44 System.out.print(s: "Mata Uang : ");
45 String MataUang = input.readLine();
46 System.out.print(s: "Nominal : ");
47 int uang = Integer.parseInt(s: input.readLine());
48 System.out.println(x: "=====");
49 // listUang.add(new Uang(nama, tanggal, gender, MataUang, uang));
50 Uang un =new Uang(nama, tanggal, gender, MataUang, uang);
51 listUang.add(s: un);
52 un.info(nama);
53
54 }else if(pil == 2){
55     System.out.println(x: "\n\tMenu Menambahkan Data ");
56     System.out.println(x: "=====");
57     System.out.print(s: "Nama Pembayar Zakat : ");
58     String nama = input.readLine();
59     System.out.print(s: "Tanggal (DD/MM/YYYY): ");
60     String tanggal = input.readLine();
61     System.out.print(s: "Gender : ");
62     String gender = input.readLine();
63     System.out.print(s: "Masukkan Jenis makanan pokok : ");
64     String Jenis = input.readLine();

```

```

64         String Jenis = input.readLine();
65         System.out.print(s: "Masukkan Berat Dalam Kg : ");
66         int Kilo = Integer.parseInt(s: input.readLine());
67         System.out.println(s: "=====");
68         // listMK.add(new MakananPokok(nama, tanggal, gender, Jenis, Kilo));
69         MakananPokok mk = new MakananPokok(nama, tanggal, gender, Jenis, Kilo);
70         listMK.add(s: mk);
71     }else{
72         System.out.println(s: "Pilihan Salah");
73     }
74 }
75
76 public static void showData () throws IOException{
77     jenisZakat();
78     jenisZakat();
79     System.out.print(s: "Pilih Data: ");
80     int pil = Integer.parseInt(s: input.readLine());
81     if(pil == 1){
82         display();
83         System.out.println(s: "\nData Pembayar Zakat ");
84         System.out.println(s: "\nDengan Uang ");
85         System.out.println(s: "=====");
86         if (listUang.isEmpty()){
87             System.out.println(s: "Data belum ditambahkan");
88         }else{
89             for(int i = 0; i < listUang.size();i++){
90                 System.out.println("Data pada indeks ke-" + (i + 1));
91                 listUang.get(index: i).tampil();
92             }
93             System.out.println(s: "=====");
94         }else if(pil == 2){
95             display();
96             System.out.println(s: "\nData Pembayar Zakat ");
97             System.out.println(s: "\nDengan Makanan ");
98             System.out.println(s: "=====");
99             if (listMK.isEmpty()){
100                 System.out.println(s: "Data belum ditambahkan");
101             }else{
102                 for(int i = 0; i < listMK.size();i++){
103                     System.out.println("Data pada indeks ke-" + (i + 1));
104                     listMK.get(index: i).tampil();
105                 }
106             }
107             System.out.println(s: "=====");
108         }
109     }
110
111 public static void updateData () throws IOException{
112     jenisZakat();
113     int pil = Integer.parseInt(s: input.readLine());
114     if(pil == 1){

```

```

115         if (listUang.isEmpty()) {
116             System.out.println("Belum ada data yang tersimpan!");
117         } else {
118             System.out.print("Masukkan indeks data yang ingin diubah: ");
119             int index = Integer.parseInt(s: input.readLine());
120             if (index < 0 || index >= listUang.size()) {
121                 System.out.println("Indeks tidak ditemukan!");
122             } else {
123                 Uang ua = listUang.get(index);
124                 System.out.println("Data mahasiswa dengan indeks " + index);
125                 System.out.println("ua);
126                 System.out.print("\n\tMenambahkan Data Baru ");
127                 System.out.println("=====");
128
129                 System.out.print("Nama Baru: ");
130                 ua.setNama(nama: input.readLine());
131
132                 System.out.print("Tanggal (DD/MM/YYYY): ");
133                 ua.setTanggal(banggal: input.readLine());
134
135                 System.out.print("Gender : ");
136                 ua.setGender(gender: input.readLine());
137
138                 System.out.print("Mata Uang : ");
139                 ua.setMataUang(MataUang: input.readLine());
140
141                 System.out.print("Nominal : ");
142                 ua.setUang(uang: Integer.parseInt(s: input.readLine()));
143
144             }
145         }
146     } else if (pil == 2) {
147         if (listMK.isEmpty()) {
148             System.out.println("Belum ada data yang tersimpan!");
149         } else {
150             System.out.print("Masukkan indeks data yang ingin diubah: ");
151             int index = Integer.parseInt(s: input.readLine());
152             System.out.println("Indeks tidak ditemukan!");
153         } else {
154             MakananPokok MK = listMK.get(index);
155             System.out.println("Data mahasiswa dengan indeks " + index);
156             System.out.println("MK);
157             System.out.print("\n\tMenambahkan Data Baru ");
158             System.out.println("=====");
159             MK.setNama(nama: input.readLine());
160             System.out.print("Tanggal (DD/MM/YYYY): ");
161             MK.setTanggal(banggal: input.readLine());
162             System.out.print("Gender : ");
163             MK.setGender(gender: input.readLine());
164             System.out.print("Jenis Makanan Pokok : ");
165             MK.setJenis(Jenis: input.readLine());
166             System.out.print("Berat : ");
167             MK.setKilo(Kilo: Integer.parseInt(s: input.readLine()));
168
169         }
170     }
171 }
172 }
173
174 public static void deleteData() throws IOException {
175     jenisZakat();
176     System.out.print("Pilih Data: ");
177     int pil = Integer.parseInt(s: input.readLine());
178     if (pil == 1) {
179         if (listUang.isEmpty()) {
180             System.out.println("Belum ada data yang tersimpan!");

```

```

181     } else {
182         System.out.print(s: "Masukkan indeks data mahasiswa yang ingin dihapus: ");
183         int index = Integer.parseInt(s: input.readLine());
184         if (index < 0 || index >= listUang.size()) {
185             System.out.println(s: "Indeks tidak ditemukan!");
186         } else {
187             Uang ua = listUang.get(index);
188             listUang.remove(index);
189             System.out.println("Data mahasiswa dengan indeks " + index + " berhasil dihapus:");
190             System.out.println(s: ua);
191         }
192     }
193
194     System.out.println(s: ua);
195 }
196
197 }else if(pil == 2){
198     if (listMK.isEmpty()) {
199         System.out.println(s: "Belum ada data yang tersimpan!");
200     } else {
201         System.out.print(s: "Masukkan indeks data dosen yang ingin dihapus: ");
202         int index = Integer.parseInt(s: input.readLine());
203         if (index < 0 || index >= listMK.size()) {
204             System.out.println(s: "Indeks tidak ditemukan!");
205         } else {
206             MakananPokok MK = listMK.get(index);
207             listMK.remove(index);
208             System.out.println("Data dosen dengan indeks " + index + " berhasil dihapus:");
209             System.out.println(s: MK);
210         }
211     }
212 }else{
213     System.out.println(s: "Input Salah");
214 }
215
216 }
217
218 public static void main(String[] args) throws IOException {
219     boolean menu = true;
220     while(menu == true){
221         System.out.println(s: "=====");
222         System.out.println(s: "====  Program Pendataan Zakat  =====");
223         System.out.println(s: "=====");
224         System.out.println(s: "| 1. Tambah Data Zakat           |");
225         System.out.println(s: "| 2. Tampilkan Data Zakat        |");
226         System.out.println(s: "| 3. Edit Data Zakat             |");
227         System.out.println(s: "| 4. Hapus Data Zakat            |");
228         System.out.println(s: "| 5. Exit Program                |");
229         System.out.println(s: "=====");
230         System.out.print(s: "Pilihan: ");
231
232         int pilih = Integer.parseInt(s: input.readLine());
233         switch(pilih) {

```

```
229 case 1:
230     addData();
231     froze();
232     break;
233 case 2:
234     showData();
235     froze();
236     break;
237 case 3:
238     updateData();
239     froze();
240     break;
241 case 4:
242     deleteData();
243
244
245     froze();
246     break;
247 case 5:
248     System.out.println("Program dihentikan");
249     menu = false;
250     break;
251 default:
252     System.out.println("Pilihan salah");
253     froze();
254     break;
255 }
256 }
257 }
258 }
```

---

```
1 package posttest_6;
2
3 public abstract class Data {
4     protected final String data = "Terimakasih Telah Membayar Zakat";
5     private String nama, tanggal, gender;
6
7     public Data(String nama, String tanggal, String gender) {
8         this.nama = nama;
9         this.tanggal = tanggal;
10        this.gender = gender;
11    }
12
13    public String getNama() {
14        return nama;
15    }
16
17    public void setNama(String nama) {
18        this.nama = nama;
19    }
20
21    public String getTanggal() {
22        return tanggal;
23    }
24
25    public void setTanggal(String tanggal) {
26        this.tanggal = tanggal;
27    }
28
29    public String getGender() {
30        return gender;
31    }
32
33    public void setGender(String gender) {
34        this.gender = gender;
35    }
36
37    public void info(String nama){
38        System.out.println("Data dengan Nama " + nama + " berhasil ditambahkan!");
39    }
40
41    public abstract void tampil();
42 }
43
```

===

```

1 package posttest_6;
2
3 import java.io.BufferedReader;
4 import java.io.InputStreamReader;
5 import java.util.ArrayList;
6
7 public class Uang extends Data implements Tambahan{
8     static BufferedReader input = new BufferedReader(new InputStreamReader(System.in));
9     static ArrayList<Uang> listUang = new ArrayList<>();
10
11     private int uang;
12     private String MataUang;
13
14     public Uang(String nama, String tanggal, String gender, String MataUang, int uang) {
15         super(nama, tanggal, gender);
16         this.uang = uang;
17         this.MataUang = MataUang;
18     }
19
20     public int getUang() {
21         return uang;
22     }
23
24     public void setUang(int uang) {
25         this.uang = uang;
26     }
27
28     public String getMataUang() {
29         return MataUang;
30     }
31
32     public void setMataUang(String MataUang) {
33         this.MataUang = MataUang;
34     }
35
36     @Override
37     public void tampil() {
38         System.out.println("Nama          : " + getNama() );
39         System.out.println("Tanggal       : " + getTanggal() );
40         System.out.println("Gender        : " + getGender() );
41         System.out.println("Mata Uang     : " + uang);
42         System.out.println("Nominal       : " + MataUang);
43         System.out.println("Masjid        : " + NamaMasjid());
44         System.out.println("Amlil         : " + amlilZakat());
45         System.out.println("data");
46     }
47     public static void Masjid() {
48         System.out.println("Masjid          : Seumur Hidup");
49     }
50
51     @Override
52     public String NamaMasjid() {
53         return "Sabilusalam";
54     }
55     @Override
56     public String amlilZakat() {
57         return "Abdulah";
58     }
59 }

```



```

1 package posttest_6;
2
3 import java.io.BufferedReader;
4 import java.io.InputStreamReader;
5 import java.util.ArrayList;
6
7 public class MakananPokok extends Data implements Tambahan{
8     static BufferedReader input = new BufferedReader(new InputStreamReader(in: System.in));
9     static ArrayList<MakananPokok> listMK = new ArrayList<>();
10
11     private int Kilo;
12     private String Jenis;
13
14     public MakananPokok(String nama, String tanggal, String gender,String Jenis, int Kilo){
15         super(nama, tanggal, gender);
16         this.Kilo = Kilo;
17         this.Jenis = Jenis;
18     }
19
20     public int getKilo() {
21         return Kilo;
22     }
23
24     public void setKilo(int Kilo) {
25         this.Kilo = Kilo;
26     }
27
28     public String getJenis() {
29         return Jenis;
30     }
31
32     public void setJenis(String Jenis) {
33         this.Jenis = Jenis;
34     }
35
36     @Override
37     public void tampil(){
38         System.out.println("Nama : " + getName() );
39         System.out.println("Tanggal : " + getTanggal() );
40         System.out.println("Gender : " + getGender() );
41         System.out.println("Jenis makanan pokok : " + Jenis);
42         System.out.println("Berat : " + Kilo);
43         System.out.println("Masjid : " + NamaMasjid());
44         System.out.println("Nominal : " + amilZakat());
45         System.out.println(x: data);
46     }
47
48     @Override
49     public String NamaMasjid(){
50         return "Sabilusalam";
51     }
52
53     @Override
54     public String amilZakat(){
55         return "Abdulah";
56     }

```

```
1  /*
2  * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
3  * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Interface.java to edit this template
4  */
5  package posttest_6;
6
7  /**
8   *
9   * @author NITRO 5
10  */
11  public interface Tambahan {
12      String NamaMasjid();
13      String amilZakat();
14  }
15
16
```