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Kelas: Informatika C 2020

Screenshot program

Class BoltSalmon

```

1 package Posttest6;
2
3 public class BoltSalmon implement PetShop{
4
5     private int food;
6     private boolean LihatDataProduk;
7
8     public BoltSalmon() {
9         this.food = Bolt;
10    }
11
12    @Override
13    public void LihatDataProduk () {
14        isLihatDataProduk = true;
15        System.out.println("Produk yang di
16        pilih adalah Bolt");
17        System.out.println("Bolt adalah
18        kategori Makanan");
19    }
20    @Override
21    public void TambahDataProduk () {
22        isLihatDataProduk = false;
23        System.out.println("Data
24        Ditambah");
25    }
26    @Override
27    public void UpdateDataProduk () {
28        if (isLihatDataProduk) {
29            if (this.food == Merk) {
30                System.out.println("Data
31                Produk telah terupdate");
32                System.out.println("Produk
33                " + "Update" + this.getFood());
34            } else {
35                this.food += Bolt;
36                System.out.println("Hasil
37                Update : " + this.getFood());
38            }
39        } else {
40            System.out.println("Data Tidak
41            dapat terupdate ");
42        }
43    }
44 }

```

```

35     }
36 }
37 @Override
38 public void JenisDataProduk () {
39     if (isLihatDataProduk) {
40         if (this.food == Jenis) {
41             System.out.println("Jenis
Bolt adalah Pet Food");
42         } else {
43             this.food -= "Jenis Bolt
adalah Litter";
44             System.out.println("litter
bukan merupakan jenis : " +
this.getFood());
45         }
46     } else {
47         System.out.println("Bukan
jenis apapun");
48     }
49 }
50 public int getFood() {
51     return this.food;
52 }
53 }

```

Class Kucing

```

X Kucing.java X PetShop.java X BoltSalmon.java
1 package Posttest6
2
3
4
5 public class Kucing {
6
7     private PetShop petshop;
8
9     public Kucing(PetShop petshop) {
10         this.petshop = petshop;
11     }
12
13     void pilihanLihatDataProduk(){
14         this.petshop.LihatDataProduk();
15     }
16
17     void pilihanTambahDataProduk(){
18         this.petshop.TambahDataProduk();
19     }
20
21     void pilihanUpdateDataProduk(){
22         this.petshop.UpdateDataProduk();
23     }
24
25     void pilihanHapusDataProduk(){
26         this.petshop.HapusDataProduk();
27     }
28 }

```

Class Anjing

```
× Anjing.java × Kucing.java × PetShop.java >
1 package Posttest6
2
3
4
5 public class Anjing {
6     private PetShop petshop;
7
8     public Anjing(PetShop petshop) {
9         this.petshop = petshop;
10    }
11
12    void pilihanLihatDataProduk(){
13        this.petshop.LihatDataProduk();
14    }
15
16    void pilihanTambahDataProduk(){
17        this.petshop.TambahDataProduk();
18    }
19
20    void pilihanUpdateDataProduk(){
21        this.petshop.UpdateDataProduk();
22    }
23
24    void pilihanHapusDataProduk(){
25        this.petshop.HapusDataProduk();
26    }
27 }
28 }
```

Class PetShop

```
ucing.java × PetShop.java × BoltSalmon.java ×
1 package Posttest6;
2
3 public interface PetShop {
4     String Merk = Bolt;
5     String Jenis = Makanan Kucing;
6     double Berat = 1.000;
7     double Harga = 25.000;
8
9     void LihatDataProduk();
10    void TambahDataProduk();
11    void UpdateDataProduk();
12    void HapusDataProduk();
13 }
```

Class Main

```

Main.java X Anjing.java X Kucing.java X PetS
1 package Posttest6;
2
3 import java.io.File;
4 import java.io.FileNotFoundException;
5 import java.io.FileWriter;
6 import java.io.IOException;
7 import java.util.ArrayList;
8 import java.util.Scanner;
9 import java.util.logging.Level;
10 import java.util.logging.Logger;
11
12 public class Main {
13
14     static String fileName;
15     static ArrayList<String> petShops;
16     static boolean isEditing = false;
17     static Scanner input;
18
19     private final String kelompok = "Kategori
barang di petshop Primrose";
20
21     private final void cetak(PetShop[] ob,
String nama){
22         System.out.println("Nama Hewan
Peliharaan: " + tipe);
23         System.out.println("");
24
25         for(int i = 0; i < ob.length; i++){
26             ob[i].getNama();
27             ob[i].setPetId(petId);
28             ob[i].getPetId();
29
30             ob[i].setTanggalLahir(tanggalLahir);
31             ob[i].getTanggalLahir();
32             ob[i].setBeratBadan(beratBadan);
33             ob[i].getBeratBadan();
34             ob[i].tampil();
35             ob[i].hapus();
36
37         System.out.println("#=====
=====#");

```

```
Main.java X Anjing.java X Kucing.java X PetS
37     }
38     ob = null;
39     petId = null;
40     tanggalLahir = null;
41     beratBadan = null;
42     }
43     public static void main(String[]
44 args) {
45         petShops = new ArrayList<>();
46         input = new Scanner(System.in);
47
48         String filePath;
49         filePath = System.console() ==
50 null ? "src/
51 pkg2009106122_rizky_fitriani_posttest4/
52 petshop.csv" : "/petshop.csv";
53         fileName =
54 System.getProperty("petshop.dir") +
55 filePath;
56
57         System.out.println("FILE: " +
58 fileName);
59
60         while (true) {
61             showMenu();
62         }
63     }
64
65     static void clearScreen() {
66         try {
67             final String os =
68 System.getProperty("os.name");
69             if (os.contains("Windows")) {
70                 new ProcessBuilder("cmd",
71 "/c", "cls")
72                     .inheritIO()
73                     .start()
74                     .waitFor();
75             } else {
76                 Runtime.getRuntime().exec("clear");
77             }
78         } catch (IOException | InterruptedException e) {
79             e.printStackTrace();
80         }
81     }
82 }
```

```

Main.java X Anjing.java X Kucing.java X PetS
68 System.out.print("\033[H\033[2J");
69     System.out.flush();
70     }
71     } catch (final IOException |
InterruptedException e) {
72         System.out.println("Error
karena: " + e.getMessage());
73     }
74
75     }
76
77     static void showMenu() {
78         System.out.println("=== SISTEM
MANAGEMENT PET SHOP PRIMROSE ===");
79         System.out.println("[1] Lihat
Barang");
80         System.out.println("[2] Tambah
Barang");
81         System.out.println("[3] Edit
Barang");
82         System.out.println("[4] Hapus
Barang");
83         System.out.println("[0] Keluar");

84         System.out.println("-----
");
85         System.out.print("Pilih menu> ");
86
87         String selectedMenu =
input.nextLine();
88
89         switch (selectedMenu) {
90             case "1":
91                 showPetShop();
92                 break;
93             case "2":
94                 addPetShop();
95                 break;
96             case "3":
97                 editPetShop();

```

```

Main.java X Anjing.java X Kucing.java X PetS
98         break;
99         case "4":
100             deletePetShop();
101             break;
102         case "0":
103             System.exit(0);
104         default:
105             System.out.p>rintln("Anda
106 salah memilih menu!");
107             backToMenu();
108             break;
109     }
110 }
111 static void backToMenu() {
112     System.out.println("");
113     System.out.print("Tekan [Enter]
114 untuk kembali..");
115     input.nextLine();
116     clearScreen();
117 }
118 static void readPetShop() {
119     try {
120         File file;
121         file = new File(fileName);
122         Scanner fileReader = new
123 Scanner(file);
124         petShops.clear();
125         while
126 (fileReader.hasNextLine()) {
127             String data =
128             fileReader.nextLine();
129             petShops.add(data);
130         }
131     } catch (FileNotFoundException e)
132     {
133         System.out.println("Error
134 karena: " + e.getMessage());

```

```

133     }
134 }
135
136 static void showPetShop() {
137     clearScreen();
138     readPetShop();
139
140     String petId = "001";
141     PetShop[] ob = {
142         new Kucing("Bonon", 26, 3.5),
143         new Anjing("Cher", 12, 6.8),
144     };
145     Main main = new Main();
146     main.cetak(ob, petId, tanggalLahir,
147     beratBadan);
148     ob = null;
149     petId = null;
150     tanggalahir = null;
151     beratBadan = null;
152     main = null;
153     }
154     if (petShops.size() > 0) {
155         System.out.println("BARANG DI
156 PET SHOP: ");
157         int index = 0;
158         for (String data : petShops)
159         {
160             System.out.println(String.format("[%d]
161             %s", index, data));
162             index++;
163         }
164     } else {
165         System.out.println("Tidak ada
166 data!");
167     }
168     if (!isEditing) {
169         backToMenu();
170     }
171 }

```



```

Main.java X Anjing.java X Kucing.java X PetS
170     static void addPetShop() {
171         clearScreen();
172
173         PetShop petshopprimrose = new
174         PetShop (17, "Zeolite Super", "unscented
175         litter", 25.000, 37.000, "pasir");
176         System.out.println(petshopprimrose.getNo(
177         ));
178         System.out.println(petshopprimrose.getMer
179         k());
180         System.out.println
181         (petshopprimrose.getJenis());
182         System.out.println(petshopprimrose.getBer
183         at());
184         System.out.println(petshopprimrose.getHar
185         ga());
186         System.out.println(petshopprimrose.getKat
187         egori());
188         petshopprimrose.setNo(16);
189         petshopprimrose.setMerk("Super
190         Zeolite");
191         petshopprimrose.setJenis("unscented
192         litter");
193         petshopprimrose.setBerat(25.000);
194         petshopprimrose.setHarga(30.000);
195
196         petshopprimrose.setKategori("pasir");
197
198         System.out.println("Tuliskan merk
199         barang!");
200         System.out.print("Jawab: ");
201         String newPetShop =

```

```

Main.java X Anjing.java X Kucing.java X PetS
192     String newPetShop =
input.nextLine();
193
194     try {
195         try (FileWriter fileWriter =
new FileWriter(fileName, true)) {
196             fileWriter.append(String.format("%s%n",
newPetShop));
197         }
198
199         System.out.println("Barang
berhasil di tambahkan!");
200     } catch (IOException e) {
201         System.out.println("Terjadi
kesalahan karena: " + e.getMessage());
202     }
203     backToMenu();
204 }
205
206
207 static void editPetShop() {
208     isEditing = true;
209     showPetShop();
210
211     try {
212         System.out.println("-----");
213         System.out.print("Pilih
Indeks> ");
214         int index =
Integer.parseInt(input.nextLine());
215
216         if (index > petShops.size())
{
217             throw new
IndexOutOfBoundsException("Anda
memasukkan data yang salah!");
218         } else {
219             System.out.print("Data
baru: ");

```

```

Main.java X Anjing.java X Kucing.java X PetS
220         String newData =
input.nextLine();
221
222     petShops.set(index,newData);
223     System.out.println(petShops.toString());
224         try {
225             try (FileWriter
fileWriter = new FileWriter(fileName,
false)) {
226                 petShops.forEach(data -> {
227                     try {
228                         fileWriter.append(String.format("%s%n",
data));
229                     } catch
230                         (IOException ex) {
231                         Logger.getLogger(Main.class.getName()).lo
g(Level.SEVERE, null, ex);
232                     }
233                 });
234             }
235     System.out.println("Data barang berhasil
di ubah!");
236         } catch (IOException e) {
237     System.out.println("Terjadi kesalahan
karena: " + e.getMessage());
238         }
239     }
240     } catch
241     (IndexOutOfBoundsException |
242     NumberFormatException e) {
243     System.out.println(e.getMessage());
244     }
245

```

```

Main.java X Anjing.java X Kucing.java X PetS
246
247     isEditing = false;
248     backToMenu();
249 }
250
251     static void deletePetShop() {
252         isEditing = true;
253         showPetShop();
254
255         System.out.println("-----");
256         System.out.print("Pilih Indeks>
257 ");
258         int index =
259 Integer.parseInt(input.nextLine());
260
261         try {
262             if (index > petShops.size ())
263             {
264                 throw new
265                 IndexOutOfBoundsException("Anda
266                 memasukkan data yang salah!");
267             } else {
268                 System.out.println("Anda
269                 akan menghapus: ");
270
271                 System.out.println(String.format("[%d]
272                 %s", index, petShops.get(index)));
273                 System.out.println("Are
274                 you sure?");
275                 System.out.print("Jawab
276                 (y/n): ");
277                 String jawab =
278                 input.nextLine();
279
280                 if
281                 (jawab.equalsIgnoreCase("y")) {
282                     petShops.remove(index);

```

```

Main.java X Anjing.java X Kucing.java X PetS
268         String jawab =
input.nextLine();

269         if
(jawab.equalsIgnoreCase("y")) {
270             petShops.remove(index);

271             try {
272                 try (FileWriter
273 fileWriter = new FileWriter(fileName,
274 false)) {
275                     for (String
data : petShops) {
276                         fileWriter.append(String.format("%s%n",
data));
277                     }
278                 }
279             System.out.println("Data barang berhasil
di hapus!");
280             } catch (IOException
e) {
281                 System.out.println("Terjadi kesalahan
karena: " + e.getMessage());
282             }
283         }
284     }
285 }
286 } catch
287 (IndexOutOfBoundsException e) {
    System.out.println(e.getMessage());
    }

    isEditing = false;
    backToMenu();
}
}

```