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Kelas : C'21 (C2)

POSTTEST 3 KONSEP INHERITANCE

➤ SUPERCLASS (FURNITURE)

```
1
2 package furniture;
3
4
5
6 public class furniture {
7     private String nama;
8     private String merk;
9     private String warna;
10    private int harga;
11
12    public furniture(String nama, String merk, String warna, int harga) {
13        this.nama = nama;
14        this.merk = merk;
15        this.warna = warna;
16        this.harga = harga;
17    }
18
19    public String getNama() {
20        return nama;
21    }
22
23    public void setNama(String nama) {
24        this.nama = nama;
25    }
26
27    public String getMerk() {
28        return merk;
29    }
30
31    public void setMerk(String merk) {
32        this.merk = merk;
33    }
34
35    public String getWarna() {
36        return warna;
37    }
38
39    public void setWarna(String warna) {
40        this.warna = warna;
41    }
42
43    public int getHarga() {
44        return harga;
45    }
46
47    public void setHarga(int harga) {
48        this.harga = harga;
49    }
50 }
51
```

➤ SUBCLASS (KURSI)

```
1
2 package furniture;
3
4 public class kursi extends furniture {
5     private String jenis;
6     private int kodebarang;
7
8     public kursi(String nama,String merk,String warna, int harga, String jenis, int kodebarang){
9         super(nama,merk,warna,harga);
10        this.jenis = jenis;
11        this.kodebarang = kodebarang;
12    }
13
14    public String getJenis() {
15        return jenis;
16    }
17
18    public void setJenis(String jenis) {
19        this.jenis = jenis;
20    }
21
22    public int getKodebarang() {
23        return kodebarang;
24    }
25
26    public void setKodebarang(int kodebarang) {
27        this.kodebarang = kodebarang;
28    }
29 }
```

➤ SUBCLASS (MEJA)

```
1
2 package furniture;
3
4 public class meja extends furniture {
5     private String madeIn;
6     private int panjang;
7
8     public meja(String nama,String merk,String warna, int harga, String madeIn, int panjang){
9         super(nama,merk,warna,harga);
10        this.madeIn = madeIn;
11        this.panjang = panjang;
12    }
13
14    public String getMadeIn() {
15        return madeIn;
16    }
17
18    public void setMadeIn(String madeIn) {
19        this.madeIn = madeIn;
20    }
21
22    public int getPanjang() {
23        return panjang;
24    }
25
26    public void setPanjang(int panjang) {
27        this.panjang = panjang;
28    }
29 }
```

➤ MAIN

```
1
2 package furniture;
3
4 import java.io.BufferedReader;
5 import java.io.InputStreamReader;
6 import java.io.IOException;
7 import java.util.ArrayList;
8
9 public class Main {
10     static BufferedReader input = new BufferedReader(new InputStreamReader(System.in));
11     static ArrayList<kursi> listkurs = new ArrayList<>();
12     static ArrayList<meja> listmja = new ArrayList<>();
13
14     public static void froze() throws IOException {
15         System.out.println(s: "Tekan enter untuk melanjutkan... ");
16         input.readLine();
17         System.out.println(x: "");
18     }
19
20     public static void ADD() throws IOException {
21         System.out.println(x: "-----");
22         System.out.println(x: "          TAMBAH DATA          ");
23         System.out.println(x: "-----");
24         System.out.println(x: "1. KURSI");
25         System.out.println(x: "2. MEJA");
26         System.out.println(x: "-----");
27         System.out.print(s: "Pilih Data: ");
28         int pil = Integer.parseInt(s: input.readLine());
29
30         if(pil == 1){
31             System.out.println(x: "=====");
32             System.out.println(x: "===== MASUKKAN DATA KURSI =====");
33             System.out.println(x: "=====");
34             System.out.print(s: "Masukkan Nama          : ");
35             String nama = input.readLine();
36             System.out.print(s: "Masukkan Jenis          : ");
37             String jenis = input.readLine();
38             System.out.print(s: "Masukkan KodeBarang     : ");
39             int kodebarang = Integer.parseInt(s: input.readLine());
40             System.out.print(s: "Masukkan Merk           : ");
41             String merk = input.readLine();
42             System.out.print(s: "Masukkan Warna          : ");
43             String warna = input.readLine();
44             System.out.print(s: "Masukkan Harga          : ");
45             int harga = Integer.parseInt(s: input.readLine());
46             System.out.println(x: "=====");
47             listkurs.add(new kursi(nama, merk, warna, harga, jenis, kodebarang));
48             System.out.println(x: "Data berhasil ditambahkan!");
49
50         }else if(pil == 2){
51             System.out.println(x: "=====");
52             System.out.println(x: "===== MASUKKAN DATA MEJA =====");
53             System.out.println(x: "=====");
54             System.out.print(s: "Masukkan Nama          : ");
55             String nama = input.readLine();
```

```

57     System.out.print(s: "Masukkan Merk      : ");
58     String merk = input.readLine();
59     System.out.print(s: "Masukkan Warna      : ");
60     String warna = input.readLine();
61     System.out.print(s: "Masukkan Harga      : ");
62     int harga = Integer.parseInt(s: input.readLine());
63     System.out.print(s: "Masukkan Made In    : ");
64     String madeIn = input.readLine();
65     System.out.print(s: "Masukkan Panjang    : ");
66     int panjang = Integer.parseInt(s: input.readLine());
67     System.out.println(x: "=====");
68     listmja.add(new meja(nama, merk, warna, harga, madeIn, panjang));
69     System.out.println(x: "Data berhasil ditambahkan!");
70
71 }else{
72     System.out.println(x: "Pilihan Salah");
73
74 }
75 }

```

```

77 public static void DISPLAY() throws IOException{
78     System.out.println(x: "-----");
79     System.out.println(x: "          TAMPILKAN DATA          ");
80     System.out.println(x: "-----");
81     System.out.println(x: "1. Kursi");
82     System.out.println(x: "2. Meja");
83     System.out.println(x: "-----");
84     System.out.print(s: "Pilih Data: ");
85     int pil = Integer.parseInt(s: input.readLine());
86     if(pil == 1){
87         System.out.println(x: "=====");
88         System.out.println(x: "===== TAMPILAN DATA KURSI =====");
89         System.out.println(x: "=====");
90         for(int i = 0; i < listkrs.size(); i++){
91             System.out.println("Data Index ke-" + (i+1));
92             System.out.println("Kode Barang : " + listkrs.get(index: i).getKodebarang());
93             System.out.println("Nama          : " + listkrs.get(index: i).getNama());
94             System.out.println("Jenis         : " + listkrs.get(index: i).getJenis());
95             System.out.println("Merk          : " + listkrs.get(index: i).getMerk());
96             System.out.println("Warna         : " + listkrs.get(index: i).getWarna());
97             System.out.println("Harga        : " + listkrs.get(index: i).getHarga());
98         }
99         System.out.println(x: "=====");

```

```

101     }else if(pil == 2){
102         System.out.println(x: "=====");
103         System.out.println(x: "===== TAMPILAN DATA Meja =====");
104         System.out.println(x: "=====");
105         for(int i = 0; i < listmja.size(); i++){
106             System.out.println("Data Index ke-" + (i+1));
107             System.out.println("Nama          : " + listmja.get(index: i).getNama());
108             System.out.println("Merk          : " + listmja.get(index: i).getMerk());
109             System.out.println("Warna         : " + listmja.get(index: i).getWarna());
110             System.out.println("Made In       : " + listmja.get(index: i).getMadeIn());
111             System.out.println("Panjang       : " + listmja.get(index: i).getPanjang() + " m");
112             System.out.println("Harga         : Rp." + listmja.get(index: i).getHarga());
113         }
114         System.out.println(x: "=====");
115     }else{
116         System.out.println(x: "Pilihan salah");
117
118     }
119 }

```

```

121 public static void EDIT() throws IOException{
122     System.out.println(x: "-----");
123     System.out.println(x: "                Jenis Data                ");
124     System.out.println(x: "-----");
125     System.out.println(x: "1. KURSI");
126     System.out.println(x: "2. MEJA");
127     System.out.println(x: "-----");
128     System.out.print(s: "Pilih Data: ");
129     int pil = Integer.parseInt(s: input.readLine());
130     if(pil == 1){
131         if (listkrs.isEmpty()) {
132             System.out.println(x: "Belum ada data yang tersimpan!");
133         } else {
134             System.out.print(s: "Masukkan indeks data kursi yang ingin diubah: ");
135             int index = Integer.parseInt(s: input.readLine());
136             if (index < 0 || index >= listkrs.size()) {
137                 System.out.println(x: "Indeks tidak ditemukan!");
138             } else {
139                 kursi krs = listkrs.get(index);
140                 System.out.println("Data kursi dengan indeks " + index);
141                 System.out.println(x: krs);
142                 System.out.println(x: "-----");
143                 System.out.println(x: "===== Masukkan Data Kursi Yang Baru =====");
144                 System.out.println(x: "-----");
145                 System.out.print(s: "Kode Barang          : ");
146                 krs.setKodebarang(kodebarang: Integer.parseInt(s: input.readLine()));
147                 System.out.print(s: "Masukkan Nama      : ");
148                 krs.setNama(nama: input.readLine());
149                 System.out.print(s: "Masukkan Jenis    : ");
150                 krs.setJenis(jenis: input.readLine());
151                 System.out.print(s: "Masukkan Merk      : ");
152                 krs.setMerk(merk: input.readLine());
153                 System.out.print(s: "Masukkan Warna     : ");
154                 krs.setWarna(warna: input.readLine());
155                 System.out.print(s: "Masukkan Harga     : ");
156                 krs.setHarga(harga: Integer.parseInt(s: input.readLine()));
157                 System.out.println(x: "=====");
158                 System.out.println(x: "Data berhasil diubah!!");
159             }
160         }
161     } else if(pil == 2){
162         if (listmja.isEmpty()) {
163             System.out.println(x: "Belum ada data yang tersimpan!");
164         } else {
165             System.out.print(s: "Masukkan indeks data meja yang ingin diubah: ");
166             int index = Integer.parseInt(s: input.readLine());
167             if (index < 0 || index >= listmja.size()) {
168                 System.out.println(x: "Indeks tidak ditemukan!");
169             } else {
170                 meja mja = listmja.get(index);
171                 System.out.println("Data meja dengan indeks " + index);
172                 System.out.println(x: mja);
173                 System.out.println(x: "-----");
174                 System.out.println(x: "=== Masukkan data meja yang baru ===");
175                 System.out.println(x: "-----");
176                 System.out.print(s: "Masukkan Nama      : ");
177                 mja.setNama(nama: input.readLine());
178                 System.out.print(s: "Masukkan Merk      : ");
179                 mja.setMerk(merk: input.readLine());
180                 System.out.print(s: "Masukkan Warna     : ");

```

```

181         mja.setWarna(warna: input.readLine());
182         System.out.print(s: "Masukkan Made In : ");
183         mja.setMadeIn(madeIn: input.readLine());
184         System.out.print(s: "Masukkan Panjang : ");
185         mja.setPanjang(panjang: Integer.parseInt(s: input.readLine()));
186         System.out.print(s: "Masukkan Harga : ");
187         mja.setHarga(harga: Integer.parseInt(s: input.readLine()));
188         System.out.println(x: "=====");
189         System.out.println(x: "Data berhasil diubah!!");
190     }
191 }
192 }else{
193     System.out.println(x: "Input Salah");
194 }
195 }
196
197 public static void DELETE() throws IOException{
198     System.out.println(x: "-----");
199     System.out.println(x: "                Jenis Data                ");
200     System.out.println(x: "-----");
201     System.out.print(s: "1. KURSI");
202     System.out.print(s: "2. MEJA");
203     System.out.println(x: "-----");
204     System.out.print(s: "Pilih Data: ");
205     int pil = Integer.parseInt(s: input.readLine());
206     if(pil == 1){
207         if (listkrs.isEmpty()) {
208             System.out.println(x: "Belum ada data yang tersimpan!");
209         } else {
210             System.out.print(s: "Masukkan indeks data kursi yang ingin dihapus: ");
211             int index = Integer.parseInt(s: input.readLine());
212
213             if (index < 0 || index >= listkrs.size()) {
214                 System.out.println(x: "Indeks tidak ditemukan!");
215             } else {
216                 kursi krs = listkrs.get(index);
217                 listkrs.remove(index);
218                 System.out.println("Data kursi dengan indeks " + index + " berhasil dihapus:");
219                 System.out.println(x: krs);
220             }
221         }
222     }else if(pil == 2){
223         if (listmja.isEmpty()) {
224             System.out.println(x: "Belum yang tersimpan!");
225         } else {
226             System.out.print(s: "Masukkan indeks data meja yang ingin dihapus: ");
227             int index = Integer.parseInt(s: input.readLine());
228             if (index < 0 || index >= listmja.size()) {
229                 System.out.println(x: "Indeks tidak ditemukan!");
230             } else {
231                 meja mja = listmja.get(index);
232                 listmja.remove(index);
233                 System.out.println("Data meja dengan indeks " + index + " berhasil dihapus:");
234                 System.out.println(x: mja);
235             }
236         }
237     }else{
238         System.out.println(x: "Input Salah");
239     }
240 }

```

```

242 public static void main(String[] args) throws IOException {
243     boolean menu = true;
244     while(menu == true){
245         System.out.println(x: "=====");
246         System.out.println(x: "        Pendataan Furniture BaekStarla        ");
247         System.out.println(x: "=====");
248         System.out.println(x: "                MENU:");
249         System.out.println(x: "                1. ADD Data");
250         System.out.println(x: "                2. Display Data");
251         System.out.println(x: "                3. Edit Data");
252         System.out.println(x: "                4. Delete Data");
253         System.out.println(x: "                5. EXIT");
254         System.out.println(x: "=====");
255         System.out.print(s: "Enter Your Choice: ");
256         int pilih = Integer.parseInt(s: input.readLine());
257
258         switch(pilih){
259             case 1:
260                 ADD();
261                 froze();
262                 break;
263             case 2:
264                 DISPLAY();
265                 froze();
266                 break;
267             case 3:
268                 EDIT();
269                 froze();
270                 break;
271
272             case 4:
273                 DELETE();
274                 froze();
275                 break;
276             case 5:
277                 System.out.println(x: "Program terhenti");
278                 menu = false;
279                 break;
280             default:
281                 System.out.println(x: "Pilihan salah");
282                 froze();
283                 break;
284         }
285     }
286 }

```

➤ OUTPUT

```
run:
=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 1
-----
TAMBAH DATA
-----
1. KURSI
2. MEJA
-----
Pilih Data: 1
=====
===== MASUKKAN DATA KURSI =====
=====
Masukkan Nama      : bergere
Masukkan Jenis     : sidechair
Masukkan KodeBarang : 3001
Masukkan Merk      : ikea
Masukkan Warna     : putih
Masukkan Harga     : 1200000
=====
Data berhasil ditambahkan!
Tekan enter untuk melanjutkan...
```

```
=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 1
-----
TAMBAH DATA
-----
1. KURSI
2. MEJA
-----
Pilih Data: 1
=====
===== MASUKKAN DATA KURSI =====
=====
Masukkan Nama      : clubChair
Masukkan Jenis     : sofa
Masukkan KodeBarang : 3002
Masukkan Merk      : fantoni
Masukkan Warna     : biru
Masukkan Harga     : 1500000
=====
Data berhasil ditambahkan!
Tekan enter untuk melanjutkan...
```

```
=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 1
-----
TAMBAH DATA
-----
1. KURSI
2. MEJA
-----
Pilih Data: 2
=====
===== MASUKKAN DATA MEJA =====
=====
Masukkan Nama      : mejaKomputer
Masukkan Merk      : ikea
Masukkan Warna     : coklat
Masukkan Harga     : 2300000
Masukkan Made In   : indonesia
Masukkan Panjang   : 3
=====
Data berhasil ditambahkan!
Tekan enter untuk melanjutkan...
```



```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 1
=====
TAMBAH DATA
=====
1. KURSI
2. MEJA
=====
Pilih Data: 2
=====
===== MASUKKAN DATA MEJA =====
=====
Masukkan Nama      : mejaPodium
Masukkan Merk       : informa
Masukkan Warna      : hitam
Masukkan Harga      : 1600000
Masukkan Made In    : korea
Masukkan Panjang    : 1
=====
Data berhasil ditambahkan!
Tekan enter untuk melanjutkan...

```

```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 2
=====
TAMPILKAN DATA
=====
1. Kursi
2. Meja
=====
Pilih Data: 1
=====
===== TAMPILAN DATA KURSI =====
=====
Data Index ke-1
Kode Barang :3001
Nama         :bergere
Jenis        :sideChair
Merk         :ikea
Warna        :putih
Harga        :1200000
Data Index ke-2
Kode Barang :3002
Nama         :clubChair
Jenis        :sofa
Merk         :fantoni
Warna        :biru
Harga        :1500000
=====
Tekan enter untuk melanjutkan...

```

```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 2
=====
TAMPILKAN DATA
=====
1. Kursi
2. Meja
=====
Pilih Data: 2

```

```
=====
===== TAMPILAN DATA Meja =====
=====
Data Index ke-1
Nama      :mejaKomputer
Merk      :ikea
Warna     :coklat
Made In   :indonesia
Panjang   :3 m
Harga     : Rp.2300000
Data Index ke-2
Nama      :mejaPodium
Merk      :informa
Warna     :hitam
Made In   :korea
Panjang   :1 m
Harga     : Rp.1600000
=====
Tekan enter untuk melanjutkan...
```

```
=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 3
=====
Jenis Data
=====
1. KURSI
2. MEJA
=====
Pilih Data: 2
Masukkan indeks data meja yang ingin diubah: 1
Data meja dengan indeks 1
furniture.meja@7cc355be
=====
=== Masukkan data meja yang baru ===
=====
Masukkan Nama      : mejaResepsionis
Masukkan Merk      : dekoruma
Masukkan Warna     : hitam
Masukkan Made In   : jepang
Masukkan Panjang   : 2
Masukkan Harga     : 1700000
=====
Data berhasil diubah!!
Tekan enter untuk melanjutkan...
```

```
=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 2
=====
TAMPILKAN DATA
=====
1. Kursi
2. Meja
=====
Pilih Data: 2
=====
===== TAMPILAN DATA Meja =====
=====
Data Index ke-1
Nama      :mejaKomputer
Merk      :ikea
Warna     :coklat
Made In   :indonesia
Panjang   :3 m
Harga     : Rp.2300000
Data Index ke-2
Nama      :mejaResepsionis
Merk      :dekoruma
Warna     :hitam
Made In   :jepang
Panjang   :2 m
```

```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 4
=====
Jenis Data
=====
1. KURSI
2. MEJA
=====
Pilih Data: 1
Masukkan indeks data kursi yang ingin dihapus: 1
Data kursi dengan indeks 1 berhasil dihapus:
furniture.kursi@6e8cf4c6
Tekan enter untuk melanjutkan...

```

```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 2
=====
TAMPILKAN DATA
=====
1. Kursi
2. Meja
=====
Pilih Data: 1
=====
===== TAMPILAN DATA KURSI =====
=====
Data Index ke-1
Kode Barang :3001
Nama       :bergere
Jenis      :sideChair
Merk       :ikea
Warna      :putih
Harga      :1200000
=====
Tekan enter untuk melanjutkan...

```

```

=====
Pendataan Furniture BaekStarla
=====
MENU:
1. ADD Data
2. Display Data
3. Edit Data
4. Delete Data
5. EXIT
=====
Enter Your Choice: 5
Program terhenti
BUILD SUCCESSFUL (total time: 6 minutes 12 seconds)

```