Nama : Febyola Pappang Allo
NIM : 2109106137
Kelas : C'21 (C2)

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POSTTEST 3
KONSEP INHERITANCE

</div>

➢ **SUPERCLASS (FURNITURE)**

```java
package furniture;


public class furniture {
    private String nama;
    private String merk;
    private String warna;
    private int harga;

    public furniture(String nama, String merk, String warna, int harga){
        this.nama = nama;
        this.merk = merk;
        this.warna = warna;
        this.harga = harga;
    }

    public String getNama() {
        return nama;
    }


    public void setNama(String nama) {
        this.nama = nama;
    }

    public String getMerk() {
        return merk;
    }


    public void setMerk(String merk) {
        this.merk = merk;
    }

    public String getWarna() {
        return warna;
    }

    public void setWarna(String warna) {
        this.warna = warna;
    }

    public int getHarga() {
        return harga;
    }

    public void setHarga(int harga) {
        this.harga = harga;
    }
}
```

➤ SUBCLASS (KURSI)

```java
package furniture;

public class kursi extends furniture {
    private String jenis;
    private int kodebarang;

    public kursi(String nama,String merk,String warna, int harga, String jenis, int kodebarang){
        super(nama,merk,warna,harga);
        this.jenis = jenis;
        this.kodebarang = kodebarang;
    }

    public String getJenis() {
        return jenis;
    }

    public void setJenis(String jenis) {
        this.jenis = jenis;
    }

    public int getKodebarang() {
        return kodebarang;
    }

    public void setKodebarang(int kodebarang) {
        this.kodebarang = kodebarang;
    }
}
```

➤ SUBCLASS (MEJA)

```java
package furniture;

public class meja extends furniture {
    private String madeIn;
    private int panjang;

    public meja(String nama,String merk,String warna, int harga, String madeIn, int panjang){
        super(nama,merk,warna,harga);
        this.madeIn = madeIn;
        this.panjang = panjang;
    }

    public String getMadeIn() {
        return madeIn;
    }

    public void setMadeIn(String madeIn) {
        this.madeIn = madeIn;
    }

    public int getPanjang() {
        return panjang;
    }

    public void setPanjang(int panjang) {
        this.panjang = panjang;
    }
}
```

➤ MAIN

```java
package furniture;

import java.io.BufferedReader;
import java.io.InputStreamReader;
import java.io.IOException;
import java.util.ArrayList;

public class Main {
    static BufferedReader input = new BufferedReader(new InputStreamReader(in: System.in));
    static ArrayList<kursi> listkrs = new ArrayList<>();
    static ArrayList<meja> listmja = new ArrayList<>();

    public static void froze() throws IOException {
        System.out.print(s: "Tekan enter untuk melanjutkan... ");
        input.readLine();
        System.out.println(x: "");
    }

    public static void ADD() throws IOException {
        System.out.println(x: "-------------------------------------");
        System.out.println(x: "               TAMBAH DATA                ");
        System.out.println(x: "-------------------------------------");
        System.out.println(x: "1. KURSI");
        System.out.println(x: "2. MEJA");
        System.out.println(x: "-------------------------------------");
        System.out.print(s: "Pilih Data: ");
        int pil = Integer.parseInt(s: input.readLine());

        if(pil == 1){
            System.out.println(x: "===========================================");
            System.out.println(x: "=========== MASUKKAN DATA KURSI ===========");
            System.out.println(x: "===========================================");
            System.out.print(s: "Masukkan Nama          : ");
            String nama = input.readLine();
            System.out.print(s: "Masukkan Jenis         : ");
            String jenis = input.readLine();
            System.out.print(s: "Masukkan KodeBarang    : ");
            int kodebarang = Integer.parseInt(s: input.readLine());
            System.out.print(s: "Masukkan Merk          : ");
            String merk = input.readLine();
            System.out.print(s: "Masukkan Warna         : ");
            String warna = input.readLine();
            System.out.print(s: "Masukkan Harga         : ");
            int harga = Integer.parseInt(s: input.readLine());
            System.out.println(x: "===========================================");
            listkrs.add(new kursi(nama,merk,warna,harga, jenis, kodebarang));
            System.out.println(x: "Data berhasil ditambahkan!");

        }else if(pil == 2){
            System.out.println(x: "===========================================");
            System.out.println(x: "=========== MASUKKAN DATA MEJA ============");
            System.out.println(x: "===========================================");
            System.out.print(s: "Masukkan Nama        : ");
            String nama = input.readLine();
```

```java
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());
        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     }
```

```java
public static void EDIT() throws IOException{
    System.out.println(x: "---------------------------------------");
    System.out.println(x: "            Jenis Data                  ");
    System.out.println(x: "---------------------------------------");
    System.out.println(x: "1. KURSI");
    System.out.println(x: "2. MEJA");
    System.out.println(x: "---------------------------------------");
    System.out.print(s: "Pilih Data: ");
    int pil = Integer.parseInt(s: input.readLine());
    if(pil == 1){
        if (listkrs.isEmpty()) {
            System.out.println(x: "Belum ada data yang tersimpan!");
        } else {
            System.out.print(s: "Masukkan indeks data kursi yang ingin diubah: ");
            int index = Integer.parseInt(s: input.readLine());
            if (index < 0 || index >= listkrs.size()) {
                System.out.println(x: "Indeks tidak ditemukan!");
            } else {
                kursi krs = listkrs.get(index);
                System.out.println("Data kursi dengan indeks " + index);
                System.out.println(x: krs);
                System.out.println(x: "-------------------------------------------------");
                System.out.println(x: "======= Masukkan Data Kursi Yang Baru =======");
                System.out.println(x: "-------------------------------------------------");
                System.out.print(s: "Kode Barang             : ");
                krs.setKodebarang(kodebarang: Integer.parseInt(s: input.readLine()));
                System.out.print(s: "Masukkan Nama    : ");
                krs.setNama(nama: input.readLine());
                System.out.print(s: "Masukkan Jenis   : ");
                krs.setJenis(jenis: input.readLine());
                System.out.print(s: "Masukkan Merk    : ");
                krs.setMerk(merk: input.readLine());
                System.out.print(s: "Masukkan Warna   : ");
                krs.setWarna(warna: input.readLine());
                System.out.print(s: "Masukkan Harga   : ");
                krs.setHarga(harga: Integer.parseInt(s: input.readLine()));
                System.out.println(x: "=====================================");
                System.out.println(x: "Data berhasil diubah!!");
            }
        }
    }else if(pil == 2){
        if (listmja.isEmpty()) {
            System.out.println(x: "Belum ada data yang tersimpan!");
        } else {
            System.out.print(s: "Masukkan indeks data meja yang ingin diubah: ");
            int index = Integer.parseInt(s: input.readLine());
            if (index < 0 || index >= listmja.size()) {
                System.out.println(x: "Indeks tidak ditemukan!");
            } else {
                meja mja = listmja.get(index);
                System.out.println("Data meja dengan indeks " + index);
                System.out.println(x: mja);
                System.out.println(x: "------------------------------------");
                System.out.println(x: "=== Masukkan data meja yang baru ===");
                System.out.println(x: "------------------------------------");
                System.out.print(s: "Masukkan Nama     : ");
                mja.setNama(nama: input.readLine());
                System.out.print(s: "Masukkan Merk     : ");
                mja.setMerk(merk: input.readLine());
                System.out.print(s: "Masukkan Warna    : ");
```

```java
                mja.setWarna(warna: input.readLine());
                System.out.print(s: "Masukkan Made In   : ");
                mja.setMadeIn(madeIn: input.readLine());
                System.out.print(s: "Masukkan Panjang   : ");
                mja.setPanjang(panjang:Integer.parseInt(s: input.readLine()));
                System.out.print(s: "Masukkan Harga      : ");
                mja.setHarga(harga: Integer.parseInt(s: input.readLine()));
                System.out.println(x: "=================================================");
                System.out.println(x: "Data berhasil diubah!!");
            }
        }
    }else{
        System.out.println(x: "Input Salah");
    }
}

public static void DELETE() throws IOException{
    System.out.println(x: "-------------------------------------");
    System.out.println(x: "                Jenis Data                ");
    System.out.println(x: "-------------------------------------");
    System.out.println(x: "1. KURSI");
    System.out.println(x: "2. MEJA");
    System.out.println(x: "-------------------------------------");
    System.out.print(s: "Pilih Data: ");
    int pil = Integer.parseInt(s: input.readLine());
    if(pil == 1){
        if (listkrs.isEmpty()) {
            System.out.println(x: "Belum ada data yang tersimpan!");
        } else {
            System.out.print(s: "Masukkan indeks data kursi yang ingin dihapus: ");
            int index = Integer.parseInt(s: input.readLine());
            if (index < 0 || index >= listkrs.size()) {
                System.out.println(x: "Indeks tidak ditemukan!");
            } else {
                kursi krs = listkrs.get(index);
                listkrs.remove(index);
                System.out.println("Data kursi dengan indeks " + index + " berhasil dihapus:")
                System.out.println(x: krs);
            }
        }
    }else if(pil == 2){
        if (listmja.isEmpty()) {
            System.out.println(x: "Belum yang tersimpan!");
        } else {
            System.out.print(s: "Masukkan indeks data meja yang ingin dihapus: ");
            int index = Integer.parseInt(s: input.readLine());
            if (index < 0 || index >= listmja.size()) {
                System.out.println(x: "Indeks tidak ditemukan!");
            } else {
                meja mja = listmja.get(index);
                listmja.remove(index);
                System.out.println("Data meja dengan indeks " + index + " berhasil dihapus:");
                System.out.println(x: mja);
            }
        }
    }else{
        System.out.println(x: "Input Salah");
    }

}
```

```java
      public static void main(String[] args) throws IOException   {
          boolean menu = true;
          while(menu == true){
          System.out.println(x: "======================================");
          System.out.println(x: "      Pendataan Furniture BaekStarla    ");
          System.out.println(x: "======================================");
          System.out.println(x: "                MENU:");
          System.out.println(x: "                1. ADD Data");
          System.out.println(x: "                2. Display Data");
          System.out.println(x: "                3. Edit Data");
          System.out.println(x: "                4. Delete Data");
          System.out.println(x: "                5. EXIT");
          System.out.println(x: "======================================");
          System.out.print(s: "Enter Your Choice: ");
          int pilih = Integer.parseInt(s: input.readLine());

          switch(pilih){
              case 1:
                  ADD();
                  froze();
                  break;
              case 2:
                  DISPLAY();
                  froze();
                  break;
              case 3:
                  EDIT();
                  froze();
                  break;

              case 4:
                  DELETE();
                  froze();
                  break;
              case 5:
                  System.out.println(x: "Program terhenti");
                  menu = false;
                  break;
              default:
                  System.out.println(x: "Pilihan salah");
                  froze();
                  break;
          }
      }
  }
}
```

➢ 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)
```