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**NAMA : ADITYA RAFIQI PANGESTU**

**NIM : 2109106110**

**KELAS : B2'21 INFORMATIKA**

**PRAKTIKUM : PEMROGRAMAN BERORIENTASI OBJEK**

## **POSTTEST 6**

**Data.java ( interface ) :**

```
package posttest6;
```

```
public interface Data {
```

```
    public void setVoucher(String voucher);
    public void setPaket(String paket);
    public void setMasa(String masa);
    public void setKode(int kode);
    public void setHarga(int harga);
```

```
}
```

**Kuota.java (implements data) :**

```
package posttest6;
```

```
public class Kuota extends Voucher implements Data{
    protected String provider;
    protected String wilayah;
```

```
    public String getProvider() {
        return provider;
    }
```

```
    public String getWilayah() {
        return wilayah;
    }
```

---

---

```
}

public void setProvider(String provider) {
    this.provider = provider;
}

public void setWilayah(String wilayah) {
    this.wilayah = wilayah;
}

public Kuota(String provider, String wilayah, String voucher, String paket, String
masa, int kode, int harga) {
    super(voucher, paket, masa, kode, harga);
    this.provider = provider;
    this.wilayah = wilayah;
}
@Override
public String toString() {
return "Kuota{" +
    "Provider   :" + provider + "\" +
    ", Wilayah  :" + wilayah +
    ", Voucher  :" + voucher + "\" +
    ", Paket   :" + paket + "\" +
    ", Masa    :" + masa + "\" +
    ", Kode    :" + kode +
    ", Harga   :" + harga +
    '}' ;
}

@Override
public void setVoucher(String voucher) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setPaket(String paket) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}
```

---

---

```
@Override
public void setMasa(String masa) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setKode(int kode) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setHarga(int harga) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getVoucher() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getPaket() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getMasa() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
int getKode() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}
```

---

---

```
@Override
int getHarga() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}
}

// }
//
// @Override
// public String toString() {
//     return super.toString();
// }
//
// @Override
// public void setHarga(int harga) {
//     super.setHarga(harga);
// }
//
// @Override
// public int getHarga() {
//     return super.getHarga();
// }
//
// @Override
// public void setKode(int kode) {
//     super.setKode(kode);
// }
//
// @Override
// public int getKode() {
//     return super.getKode();
// }
//
// @Override
// public void setMasa(String Masa) {
//     super.setMasa(Masa);
// }
//
// @Override
// public String getMasa() {
```

---

---

```
//    return super.getMasa();
// }
//
// @Override
// public void setpaket(String paket) {
//     super.setpaket(paket);
// }
//
// @Override
// public String getPaket() {
//     return super.getPaket();
// }
//
// @Override
// public void setVoucher(String voucher) {
//     super.setVoucher(voucher);
// }
//
// @Override
// public String getVoucher() {
//     return super.getVoucher();
// }
//
// @Override
// void setPaket(String paket) {
//     throw new UnsupportedOperationException("Not supported yet."); // Generated
//     from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
// }
//
//
// }
```

### **Pulsa.java ( implements data) :**

```
package posttest6;

public class Pulsa extends Voucher implements Data{
    protected String provider;
    protected int notujuan;

    public String getProvider() {
```

---

---

```
        return provider;
    }

    public int getNotujuan() {
        return notujuan;
    }

    public void setProvider(String provider) {
        this.provider = provider;
    }

    public void setNotujuan(int notujuan) {
        this.notujuan = notujuan;
    }

    public Pulsa(String provider, int notujuan, String voucher, String paket, String masa,
int kode, int harga) {
        super(voucher, paket, masa, kode, harga);
        this.provider = provider;
        this.notujuan = notujuan;
    }
    @Override
    public String toString() {
        return "Pulsa{ " +
            "Provider  :\"" + provider + "\" +
            ", NoTujuan :\" + notujuan +
            ", Voucher  :\"" + voucher + "\" +
            ", Paket   :\"" + paket + "\" +
            ", Masa   :\"" + masa + "\" +
            ", Kode   :\" + kode +
            ", Harga  :\" + harga +
            '}'";
    }

    @Override
    public void setVoucher(String voucher) {
        throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
    }

    @Override
```

---

---

```
public void setPaket(String paket) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setMasa(String masa) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setKode(int kode) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
public void setHarga(int harga) {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getVoucher() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getPaket() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
String getMasa() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
```

---

---

```
int getKode() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}

@Override
int getHarga() {
    throw new UnsupportedOperationException("Not supported yet."); // Generated
from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody
}
}
// public String toString() {
//     return super.toString();
// }
// @Override
// public void setHarga(int harga) {
//     super.setHarga(harga);
// }
// @Override
// public int getHarga() {
//     return super.getHarga();
// }
// @Override
// public void setKode(int kode) {
//     super.setKode(kode);
// }
// @Override
// public int getKode() {
//     return super.getKode();
// }
// @Override
// public void setMasa(String Masa) {
//     super.setMasa(Masa);
// }
// @Override
// public String getMasa() {
//     return super.getMasa();
// }
// @Override
// public void setpaket(String paket) {
//     super.setpaket(paket);
```

---



---

```
// }
// @Override
// public String getPaket() {
//     return super.getPaket();
// }
// @Override
// public void setVoucher(String voucher) {
//     super.setVoucher(voucher);
// }
// @Override
// public String getVoucher() {
//     return super.getVoucher();
// }
//
//
//}
```

**Main.java :**

```
package posttest6;
```

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

```
public final class Main {
    private static ArrayList<Pulsa> dataPulsa = new ArrayList<>();
    private static ArrayList<Kuota> dataKuota = new ArrayList<>();
    private static BufferedReader input = new BufferedReader(new
    InputStreamReader(System.in));
```

```
    public static void main(String[] args) throws IOException {
        boolean lanjutkan = true;
```

```
        while (lanjutkan) {
            System.out.println(" VOUCHER KUOTA ADITYA CELL");
            System.out.println("=====");
            System.out.println("| MASUKAN ANGKA PILIHAN |");
            System.out.println("=====");
            System.out.println("| 1. Tambah Voucher  |");
            System.out.println("| 2. Tampilkan Voucher  |");
```

---

---

```
System.out.println("| 3. Hapus Voucher    |");
System.out.println("| 4. Perbarui Voucher    |");
System.out.println("| 5. Keluar                |");
System.out.println("=====");

System.out.print("\nPilih menu (1-5)  : ");
String pilihan = input.readLine();

switch (pilihan) {
    case "1":
        System.out.println("\n----- Menu Tambah Voucher -----");
        System.out.println("1. Tambah Voucher Pulsa ");
        System.out.println("2. Tambah Voucher Kuota ");
        System.out.print("Pilih menu  : ");
        int pilihTambah = Integer.parseInt(input.readLine());
        switch (pilihTambah) {
            case 1 :
                tambahPulsa();
                break;
            case 2 :
                tambahKuota();
                break;
        }
        break;
    case "2":
        System.out.println("\n----- Menu Tampilkan Data -----");
        System.out.println("1. Tampilkan Data Pulsa ");
        System.out.println("2. Tampilkan data Kuota ");
        System.out.print("Pilih menu  : ");
        int pilihTampil = Integer.parseInt(input.readLine());
        switch (pilihTampil) {
            case 1:
                tampilkanPulsa();
                break;
            case 2:
                tampilkanKuota();
                break;
        }
        break;
    case "3":
        System.out.println("\n----- Menu Hapus Data -----");
```

---

---

```
        System.out.println("1. Hapus Data Pulsa ");
        System.out.println("2. Hapus data Kuota ");
        System.out.print("Pilih Menu  : ");
        int pilihHapus = Integer.parseInt(input.readLine());
        switch (pilihHapus) {
            case 1:
                hapusPulsa();
                break;
            case 2:
                hapusKuota();
                break;
        }
        break;
    case "4":
        System.out.println("\n----- Menu Perbarui Data -----");
        System.out.println("1. Perbarui Data Pulsa ");
        System.out.println("2. Perbarui data Kuota ");
        System.out.print("Pilih menu  : ");
        int pilihUbah = Integer.parseInt(input.readLine());
        switch (pilihUbah) {
            case 1:
                ubahPulsa();
                break;
            case 2:
                ubahKuota();
                break;
        }
        break;
    case "5":
        System.exit(0);
    default:
        System.err.println("Pilihan tidak tersedia \nSilahkan Input angka 1-5 ");
    }
    System.out.print("Apakah Anda Ingin Melanjutkan (y/n)? : ");
    pilihan = input.readLine();
    lanjutkan = pilihan.equalsIgnoreCase("y");
}
}
```

---

---

```
//----- TAMBAH DATA -----  
private static void tambahPulsa() throws IOException {  
    System.out.print("Nama Provider Pulsa : ");  
    String provider = input.readLine();  
  
    System.out.print("Nomor Telpon      : ");  
    int notujuan = Integer.parseInt(input.readLine());  
  
    System.out.print("Voucher          : ");  
    String voucher = input.readLine();  
  
    System.out.print("Paket            : ");  
    String paket = input.readLine();  
  
    System.out.print("Masa             : ");  
    String masa = input.readLine();  
  
    System.out.print("Kode             : ");  
    int kode = Integer.parseInt(input.readLine());  
  
    System.out.print("Harga            : Rp. ");  
    int harga = Integer.parseInt(input.readLine());  
  
    Pulsa isi = new Pulsa (provider, notujuan, voucher, paket, masa, kode, harga);  
    dataPulsa.add(isi);  
  
    System.out.println("\n Data berhasil ditambahkan.");  
}  
  
private static void tambahKuota() throws IOException {  
    System.out.print("Nama provider      : ");  
    String provider = input.readLine();  
  
    System.out.print("Nama Wilayah      : ");  
    String wilayah = input.readLine();  
  
    System.out.print("Voucher            : ");
```

---

---

```
String voucher = input.readLine();

System.out.print("Paket          : ");
String paket = input.readLine();

System.out.print("Masa          : ");
String masa = input.readLine();

System.out.print("Kode          : ");
int kode = Integer.parseInt(input.readLine());

System.out.print("Harga          : Rp. ");
int harga = Integer.parseInt(input.readLine());

Kuota Voucher = new Kuota( provider, wilayah, voucher, paket, masa, kode,
harga);
dataKuota.add(Voucher);

System.out.println("\n Data berhasil ditambahkan.");
}

//----- MENAMPILKAN DATA -----
private static void tampilkanPulsa() {
    System.out.println("\n===== DATA VOUCHER PULSA =====");

    if (dataPulsa.size() == 0) {
        System.out.println("Data Pulsa Kosong");
    } else {
        for (int i = 0; i < dataPulsa.size(); i += 1) {
            System.out.println("Nomor          " + (i + 1));
            System.out.println("Nama Provider   : " + dataPulsa.get(i).getProvider());
            System.out.println("Voucher        : " + dataPulsa.get(i).getVoucher());
            System.out.println("Paket          : " + dataPulsa.get(i).getPaket());
            System.out.println("Masa          : " + dataPulsa.get(i).getMasa());
            System.out.println("Kode          : " + dataPulsa.get(i).getKode());
            System.out.println("Harga          : Rp. " + dataPulsa.get(i).getHarga());
            System.out.println("Wilayah       : " + dataKuota.get(i).getWilayah());
```

---

---

```
System.out.println("=====
=====");
    }
}
}
```

```
private static void tampilkanKuota() {
    System.out.println("\n----- DATA VOUCHER KUOTA -----");

    if (dataKuota.size() == 0) {
        System.out.println("Data Kuota Kosong");
    } else {
        for (int i = 0; i < dataKuota.size(); i += 1) {
            System.out.println("Nomor          " + (i + 1));
            System.out.println("Nama Provider   : " + dataKuota.get(i).getProvider());
            System.out.println("Wilayah        : " + dataKuota.get(i).getWilayah());
            System.out.println("Voucher         : " + dataKuota.get(i).getVoucher());
            System.out.println("Paket           : " + dataKuota.get(i).getPaket());
            System.out.println("Masa            : " + dataKuota.get(i).getMasa());
            System.out.println("Kode            : " + dataKuota.get(i).getKode());
            System.out.println("Harga           : Rp. " + dataKuota.get(i).getHarga());

            System.out.println("=====
=====");
        }
    }
}
```

```
//----- UPDATE DATA -----
```

```
private static void ubahPulsa() throws IOException {
    tampilkanPulsa();
}
```

---

---

```
if (dataPulsa.size() == 0) {
    return;
}

System.out.print("\nPilih nomor data yang akan diubah: ");
int nomor = Integer.parseInt(input.readLine());

if (nomor < 1 || nomor > dataPulsa.size()) {
    System.out.println("Nomor data tidak valid.");
    return;
}

Pulsa isi = dataPulsa.get(nomor-1);

System.out.print("Nama Provider (" + isi.getProvider() + ") :");
String provider = input.readLine();

System.out.print("Nomor Tujuan (" + isi.getNotujuan() + ") :");
int notujuan = Integer.parseInt(input.readLine());

System.out.print("Voucher (" + isi.getVoucher() + ") :");
String voucher = input.readLine();

System.out.print("Paket (" + isi.getPaket() + ") :");
String paket = input.readLine();

System.out.print("Kode (" + isi.getKode() + ") :");
int kode = Integer.parseInt(input.readLine());

System.out.print("Masa (" + isi.getMasa() + ") :");
String masa = input.readLine();

System.out.print("Harga (" + isi.getHarga() + ") : Rp. ");
int harga = Integer.parseInt(input.readLine());

isi.setProvider(provider);
isi.setNotujuan(notujuan);
isi.setVoucher(voucher);
isi.setPaket(paket);
isi.setKode(kode);
isi.setMasa(masa);
```

---

---

```
isi.setHarga(harga);

System.out.println("\nData voucher berhasil diubah.");
}

private static void ubahKuota() throws IOException {
    tampilkanKuota();

    if (dataKuota.size() == 0) {
        return;
    }

    System.out.print("\nPilih nomor data yang akan diubah: ");
    int nomor = Integer.parseInt(input.readLine());

    if (nomor < 1 || nomor > dataKuota.size()) {
        System.out.println("Nomor data tidak valid.");
        return;
    }

    Kuota voucher = dataKuota.get(nomor-1);

    System.out.print("Nama Provider (" + voucher.getProvider() + ")   :");
    String provider = input.readLine();

    System.out.print("Wilayah (" + voucher.getWilayah() + ")   :");
    String wilayah = input.readLine();

    System.out.print("Voucher (" + voucher.getVoucher() + ")       : ");
    String Voucher = input.readLine();

    System.out.print("Paket (" + voucher.getPaket() + ")           : ");
    String paket = input.readLine();

    System.out.print("Kode (" + voucher.getKode() + ")             : ");
    int kode = Integer.parseInt(input.readLine());

    System.out.print("Masa (" + voucher.getMasa() + ")               : ");
    String masa = input.readLine();
```

---



---

```
System.out.print("Harga (" + voucher.getHarga() + ")      : Rp. ");
int harga = Integer.parseInt(input.readLine());

voucher.setProvider(provider);
voucher.setWilayah(wilayah);
voucher.setVoucher(Voucher);
voucher.setPaket(paket);
voucher.setKode(kode);
voucher.setMasa(masa);
voucher.setHarga(harga);

System.out.println("\nData voucher berhasil diubah.");
}
```

```
//----- HAPUS DATA -----
private static void hapusPulsa() throws IOException {
    tampilkanPulsa();

    if (dataPulsa.size() == 0) {
        return;
    }

    System.out.print("\nPilih nomor data yang akan dihapus: ");
    int nomor = Integer.parseInt(input.readLine());

    if (nomor < 1 || nomor > dataPulsa.size()) {
        System.out.println("Nomor data tidak valid.");
        return;
    }

    Voucher barang = dataPulsa.get(nomor-1);
    dataPulsa.remove(barang);

    System.out.println("\nData berhasil dihapus.");
}
```

---

---

```
private static void hapusKuota() throws IOException {
    tampilkanKuota();

    if (dataKuota.size() == 0) {
        return;
    }

    System.out.print("\nPilih nomor data yang akan dihapus: ");
    int nomor = Integer.parseInt(input.readLine());

    if (nomor < 1 || nomor > dataKuota.size()) {
        System.out.println("Nomor data tidak valid.");
        return;
    }

    Voucher barang = dataKuota.get(nomor-1);
    dataKuota.remove(barang);

    System.out.println("\nData berhasil dihapus.");
}
}
```

### **Voucher.java :**

```
package posttest6;

abstract class Voucher {
    protected String voucher;
    protected String paket;
    protected String masa;
    protected int kode;
    protected int harga;

    public Voucher (String voucher, String paket, String masa, int kode, int harga) {
        this.voucher = voucher;
        this.paket = paket;
        this.masa = masa;
        this.kode = kode;
        this.harga = harga;
    }
}
```

---

---

```
    }

    //-----VOUCHER-----
    // public String getVoucher() {
    //     return voucher;
    // }
    //
    // public void setVoucher(String voucher) {
    //     this.voucher = voucher;
    // }
    //
    //-----PAKET-----
    // public String getPaket() {
    //     return paket;
    // }
    //
    // public void setpaket(String paket) {
    //     this.paket = paket;
    // }
    //
    //-----MASA-----
    // public String getMasa() {
    //     return masa;
    // }
    //
    // public void setMasa(String Masa) {
    //     this.masa = Masa;
    // }

    //-----KODE-----
    // public int getKode() {
    //     return kode;
    // }
    //
    // public void setKode(int kode) {
    //     this.kode = kode;
    // }

    //-----HARGA-----
    // public int getHarga() {
    //     return harga;
```

---

---

```
// }  
//  
// public void setHarga(int harga) {  
//     this.harga = harga;  
// }  
  
//-----DISPLAY-----  
  
abstract void setVoucher(String voucher);  
abstract void setPaket(String paket);  
abstract void setMasa(String masa);  
abstract void setKode(int kode);  
abstract void setHarga(int harga);  
  
abstract String getVoucher();  
abstract String getPaket();  
abstract String getMasa();  
abstract int getKode();  
abstract int getHarga();  
  
public String display () {  
    return voucher + " | " + paket + " | " + masa + " | " + kode + " |Rp. " + harga;  
}  
}
```

---

## SCREEN SHOOT PROGRAM :

```
Output - posttest6 (run) #4

run:
VOUCHER KUOTA ADITYA CELL
=====
|  MASUKAN ANGKA PILIHAN  |
=====
| 1. Tambah Voucher      |
| 2. Tampilkan Voucher   |
| 3. Hapus Voucher       |
| 4. Perbarui Voucher    |
| 5. Keluar              |
=====

Pilih menu (1-5)      : 1

----- Menu Tambah Voucher -----
1. Tambah Voucher Pulsa
2. Tambah Voucher Kuota
Pilih menu : 1
Nama Provider Pulsa   : XL
Nomor Telpon          : 085325252
Voucher               : KUOTA BARCODE
Paket                 : GAMING
Masa                  : 20GB
Kode                  : 1
Harga                 : Rp. 500000

Data berhasil ditambahkan.
Apakah Anda Ingin Melanjutkan (y/n)? :
```

Output - posttest6 (run) #4



```
run:
VOUCHER KUOTA ADITYA CELL
=====
|  MASUKAN ANGKA PILIHAN  |
=====
| 1. Tambah Voucher      |
| 2. Tampilkan Voucher   |
| 3. Hapus Voucher       |
| 4. Perbarui Voucher    |
| 5. Keluar              |
=====

Pilih menu (1-5)      : 1

----- Menu Tambah Voucher -----
1. Tambah Voucher Pulsa
2. Tambah Voucher Kuota
Pilih menu : 2
Nama provider          : TELKOMSEL
Nama Wilayah          : SAMARINDA
Voucher               : KUOTA
Paket                 : TIKTOK 24 JAM
Masa                  : 10 GB
Kode                  : 2
Harga                 : Rp. 500000

Data berhasil ditambahkan.
Apakah Anda Ingin Melanjutkan (y/n)? :
```