NAMA : ADITYA RAFIQI PANGESTU

NIM : 2109106110

KELAS : B2'21 INFORMATIKA

PRAKTIKUM : PEMROGRAMAN BERORIENTASI OBJEK

Main.Java

```java
package posttest5;

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));

//      InputStreamReader isr = new InputStreamReader(System.in);
//      BufferedReader br = new BufferedReader(isr);
//      Login login = new Login();
//      login.Login();
//      while (true) {

    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();
```

```java
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 ");
```

```java
            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);
```

```java
      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());
```

```java
            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;
    }
```

```java
        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;
        }
```

```java
        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 posttest5;

public class Voucher {
   private String voucher;
```

```java
   private String paket;
   private String masa;
   private int kode;
   private 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----------
```

```java
    public int getHarga() {
        return harga;
    }

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

    //----------DISPLAY----------
    public String toString () {
        return voucher + " | " + paket + " | " + masa + " | " + kode + " |Rp.  " + harga;
    }
}
```

Pulsa.java

```java
package posttest5;

public class Pulsa extends Voucher{
    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 super.toString();
    }
```

```java
    @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();
    }


}
```

Kuota.java

```java
package posttest5;
```

```java
public class Kuota extends Voucher{
    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 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();
    }


}
```

Login.java

```
package posttest5;


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


public final class Login{
```

```java
    final String Username = "Aditya Rafiqi";
    final String Password = "110";

    final void Login() throws IOException {
        InputStreamReader isr = new InputStreamReader(System.in);
        BufferedReader br = new BufferedReader(isr);
        String InputUsername;
        String InputPassword;
        System.out.println("""
                \n
                ====================
                    LOGIN
                ====================
                """);
        while (true) {
            System.out.print("Masukkan Username: ");
            InputUsername = br.readLine();
            System.out.print("Masukkan Password: ");
            InputPassword = br.readLine();
            if (InputUsername.equals(Username) && InputPassword.equals(Password)) {
                break;
            } else {
                System.out.println("Username atau Password anda salah.");
            }
        }
    }
}
```