NAMA : ADITYA RAFIQI PANGESTU
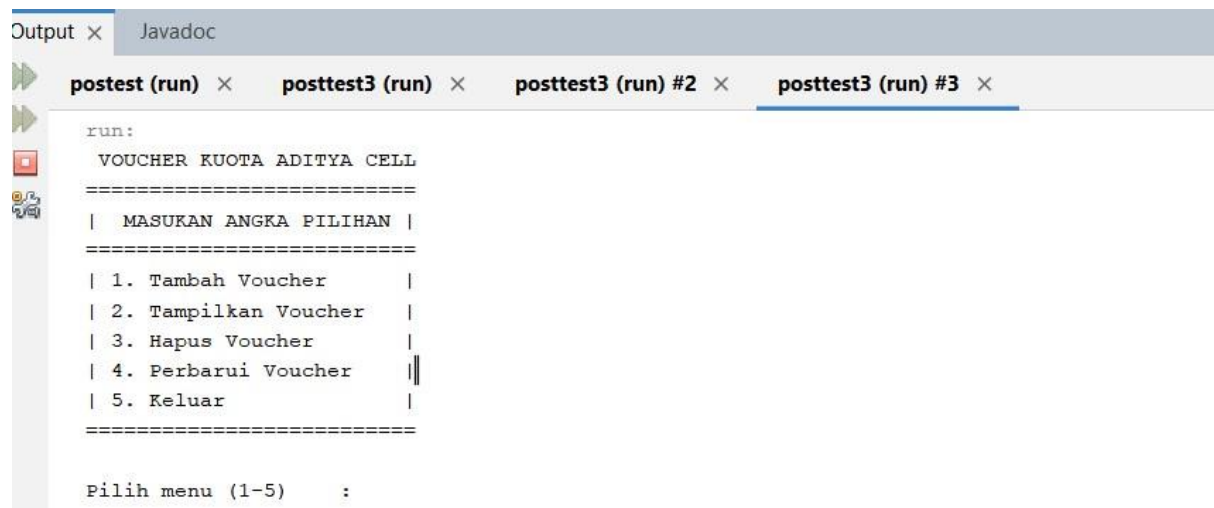
NIM : 2109106110

KELAS : B2'21 INFORMATIKA

PRAKTIKUM : PEMROGRAMAN BERORIENTASI OBJEK

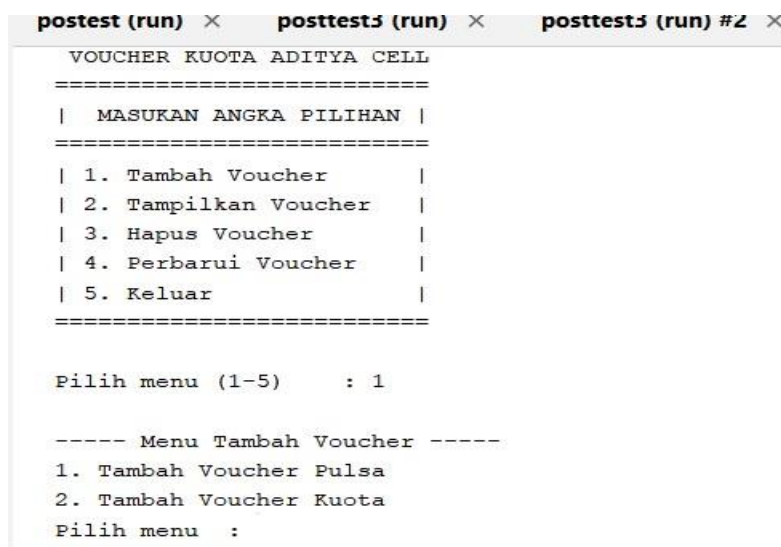**SCREEN SHOOT PROGRAM :**

1.MENU TAMPILAN AWAL

2. MENU TAMBAH VOUCHER
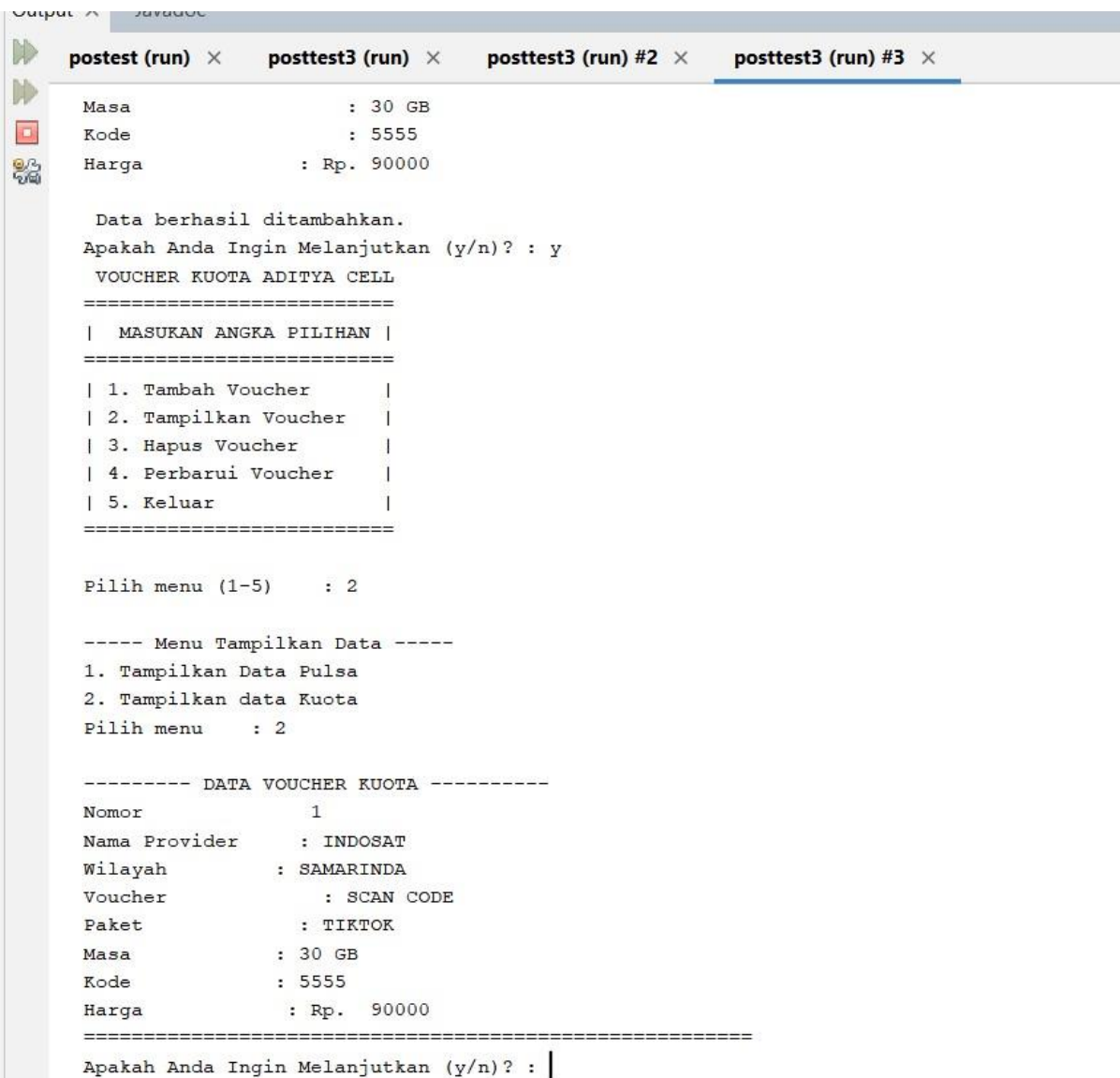

3. MENAMBAH VOUCHER PULSA

```
Pilih menu (1-5)    : 1

----- Menu Tambah Voucher -----
1. Tambah Voucher Pulsa
2. Tambah Voucher Kuota
Pilih menu  : 1
Nama Provider Pulsa  : TELKOMSEL
Nomor Telpon          : 0895885
Voucher               : GESEK
Paket                  : GAMING
Masa                   : -
Kode                   : 5555
Harga                 : Rp. 500000


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

4.MENAMBAH DATA KUOTA DAN MENAMPILKAN

```
Masa                   : 30 GB
Kode                   : 5555
Harga                 : Rp. 90000

 Data berhasil ditambahkan.
Apakah Anda Ingin Melanjutkan (y/n)? : y
 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)    : 2

----- Menu Tampilkan Data -----
1. Tampilkan Data Pulsa
2. Tampilkan data Kuota
Pilih menu    : 2

--------- DATA VOUCHER KUOTA ----------
Nomor              1
Nama Provider    : INDOSAT
Wilayah          : SAMARINDA
Voucher             : SCAN CODE
Paket            : TIKTOK
Masa             : 30 GB
Kode             : 5555
Harga              : Rp.  90000
=====================================================
Apakah Anda Ingin Melanjutkan (y/n)? :
```

SOURCE CODE :

1. MAIN.JAVA

```java
package posttest3;

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

public 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;
```

```java
                }
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 15
");
        }
```

```java
        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();
```

```java
        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. " +
```

```java
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();
```

```java
    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 {
```

```java
        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.");
    }
```

```java
//----------- 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.");
  }
```

```
        }


    2. VOUCHER.JAVA
package posttest3;


public class Voucher {
private String voucher;
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;
    }
```

```java
    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;
    }
```

```java
    //----------DISPLAY----------
public String toString () {

    return voucher + " | " + paket + " | " + masa + " | " + kode + " |Rp.  " + harga;

}

}
```

```java
package posttest3;

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;

    }
```

```java
    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;

    }



    }
```

```java
package posttest3;


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;
    }
```

```java
    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;
    }


}
```