

III. Tugas

Implementasikan studi kasus yang telah dibuat pada tugas PBO Teori ke dalam program

Code class Toko

```
package pemrogramanberbasisobjek.pertemuan4;
import java.util.ArrayList;

public class Toko {
    private String nama;
    private String alamat;
    private String contact;

    private ArrayList<Admin> listAdmin;
    private ArrayList<Barang> listBarang;

    public Toko (String nama, String alamat, String contact){
        this.nama = nama;
        this.alamat = alamat;
        this.contact = contact;
        this.listAdmin = new ArrayList<>();
        this.listBarang = new ArrayList<>();
    }

    public String getNama() {
        return this.nama;
    }

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

    public String getAlamat() {
        return this.alamat;
    }

    public void setAlamat(String alamat) {
        this.alamat = alamat;
    }

    public String getContact() {
        return this.contact;
    }
}
```

```

public void setContact(String contact) {
    this.contact = contact;
}

public String getInfoToko() {
    return nama + alamat + contact;
}

public void tambahBarang(Barang barang){
    listBarang.add(barang);
}

public void tambahAdmin(Admin admin){
    listAdmin.add(admin);
}

public String getInfo () {
    String info = "";
    info += "-----\n";
    info += "Nama Toko\t\t: " + this.nama + "\n";
    info += "Contact\t\t\t: " + this.contact + "\n";
    info += "-----\n";

    if (!listAdmin.isEmpty() ) {
        info += "Data admin : \n";
        info += "\n";

        for (Admin admin : listAdmin ){
            info += admin.getDataAdmin();
        }
    }

    else {
        info += " ";
    }

    info += "\n";
    return info;
}
}

```

Code class Admin

```
package pemrogramanberbasisobjek.pertemuan4;

public class Admin {
    private String nama;
    private int id;
    private String contact;
    private String alamat;

    public Admin(String nama, String contact, int id, String alamat){
        this.nama = nama;
        this.contact = contact;
        this.id = id;
        this.alamat = alamat;
    }

    public String getNama() {
        return this.nama;
    }

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

    public int getId() {
        return this.id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getContact() {
        return this.contact;
    }

    public void setContact(String contact) {
        this.contact = contact;
    }

    public String getAlamat() {
        return this.alamat;
    }

    public void setAlamat(String alamat) {
        this.alamat = alamat;
    }
}
```

```

    }

    public String getDataAdmin(){
        String info = "";
        info += "Nama Admin\t\t: " + this.nama + "\n";
        info += "Contact\t\t\t: " + this.contact + "\n";
        info += "Alamat Admin\t\t: " + this.alamat + "\n";
        info += "Id Admin\t\t: " + this.id;

        return info;
    }
}

```

Code class Barang

```

package pemrogramanberbasisobjek.pertemuan4;

public class Barang {
    private String nama;
    private String jenis;
    private int harga;
    private int id;

    public Barang(String nama, String jenis, int harga, int id){
        this.nama = nama;
        this.jenis = jenis;
        this.harga = harga;
        this.id = id;
    }

    public String getNama() {
        return this.nama;
    }

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

    public String getJenis() {
        return this.jenis;
    }

    public void setJenis(String jenis) {

```

```
        this.jenis = jenis;
    }

    public int getHarga() {
        return this.harga;
    }

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

    public int getId() {
        return this.id;
    }

    public void setId(int id) {
        this.id = id;
    }

    public String getInfoBarang(){
        String info = "";
        info += "-----\n";
        info += "Data barang\t\t: \n";
        info += "Nama barang\t\t: " + this.nama + "\n";
        info += "Jenis barang\t\t: " + this.jenis + "\n";
        info += "Harga barang @\t\t: " + this.harga + "\n";
        info += "Id barang\t\t: " + this.id;

        return info;
    }
}
```

Code class DemoToko

```
package pemrogramanberbasisobjek.pertemuan4;

public class DemoToko {
    public static void main(String[] args) {
        Barang barang1 = new Barang("Phone", "Electronic", 2000000, 111);
        Admin admin1 = new Admin("User1", "08123456", 101, "Malang-Blok A1");
        Toko toko1 = new Toko("Center-J1", "Blok-A 404", "000405");

        toko1.tambahAdmin(admin1);
        toko1.tambahBarang(barang1);

        System.out.println(toko1.getInfo());
        System.out.println(barang1.getInfoBarang());
        System.out.println();
        System.out.println();

        Barang barang2 = new Barang("NoteBook", "Electronic", 12000000, 112);
        Admin admin2 = new Admin("User2", "08123999", 102, "Malang-Blok B2");
        Toko toko2 = new Toko("Center-J2", "Blok-B 405", "000409");

        toko2.tambahAdmin(admin2);
        toko2.tambahBarang(barang2);

        System.out.println(toko2.getInfo());
        System.out.println(barang2.getInfoBarang());

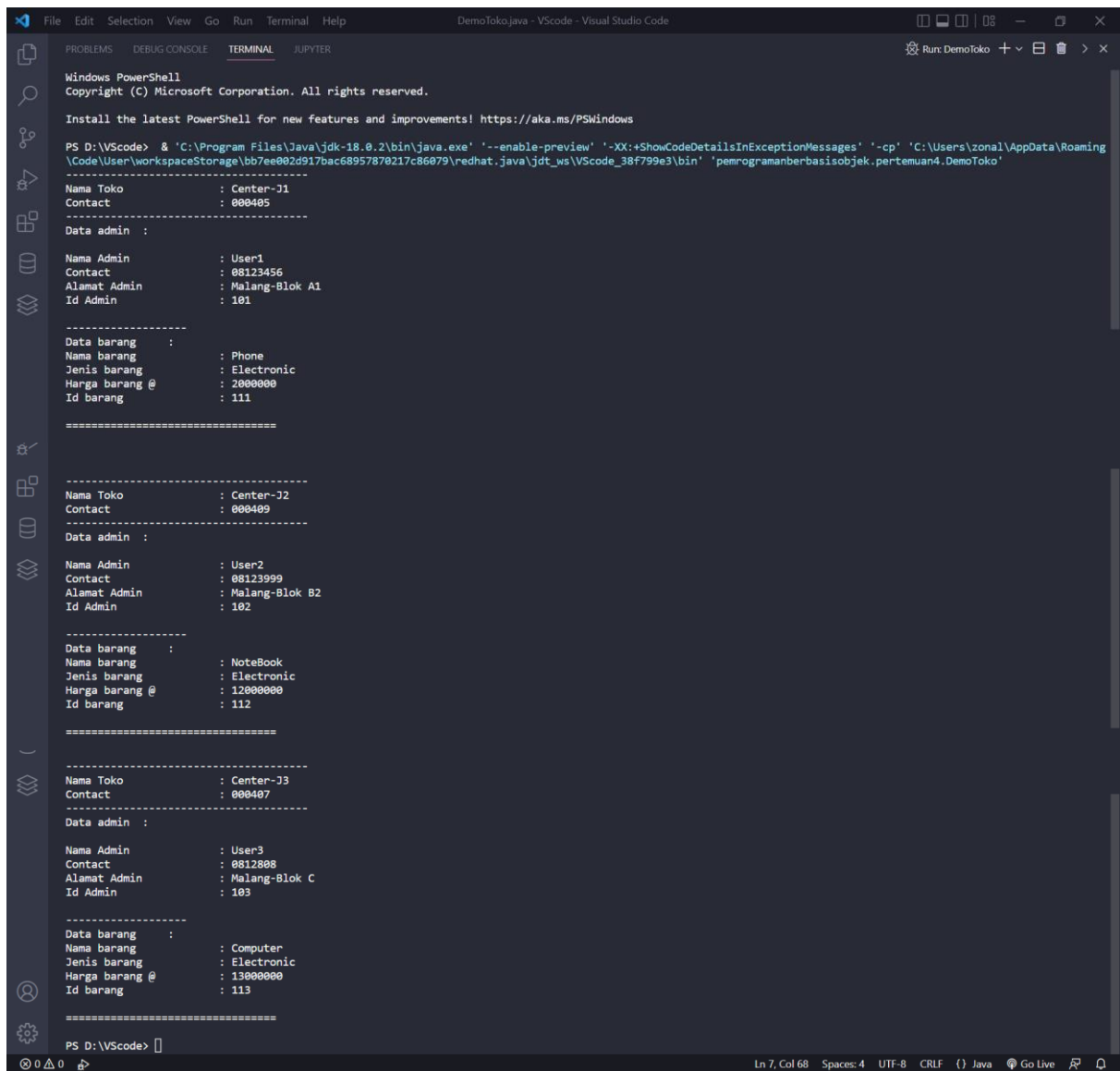
        Barang barang3 = new Barang("Computer", "Electronic", 13000000, 113);
        Admin admin3 = new Admin("User3", "0812808", 103, "Malang-Blok C");
        Toko toko3 = new Toko("Center-J3", "Blok-C 406", "000407");

        toko3.tambahAdmin(admin3);
        toko3.tambahBarang(barang3);

        System.out.println(toko3.getInfo());
        System.out.println(barang3.getInfoBarang());

    }
}
```

Hasil running



```
Windows PowerShell
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Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS D:\VScode> & 'C:\Program Files\Java\jdk-18.0.2\bin\java.exe' '--enable-preview' '-XX:+ShowCodeDetailsInExceptionMessages' '-cp' 'C:\Users\zonal\AppData\Roaming\Code\User\workspaceStorage\bb7ee002d917bac68957870217c86079\redhat.java\jdt_ws\VScode_38f799e3\bin' 'pemrogramanberbasisobjek.pertemuan4.DemoToko'

-----
Nama Toko      : Center-J1
Contact       : 000405
-----
Data admin :

Nama Admin    : User1
Contact      : 08123456
Alamat Admin : Malang-Blok A1
Id Admin     : 101
-----
Data barang :
Nama barang  : Phone
Jenis barang : Electronic
Harga barang @ : 2000000
Id barang    : 111
=====
-----
Nama Toko      : Center-J2
Contact       : 000409
-----
Data admin :

Nama Admin    : User2
Contact      : 08123999
Alamat Admin : Malang-Blok B2
Id Admin     : 102
-----
Data barang :
Nama barang  : NoteBook
Jenis barang : Electronic
Harga barang @ : 12000000
Id barang    : 112
=====
-----
Nama Toko      : Center-J3
Contact       : 000407
-----
Data admin :

Nama Admin    : User3
Contact      : 0812808
Alamat Admin : Malang-Blok C
Id Admin     : 103
-----
Data barang :
Nama barang  : Computer
Jenis barang : Electronic
Harga barang @ : 13000000
Id barang    : 113
=====
PS D:\VScode>
```