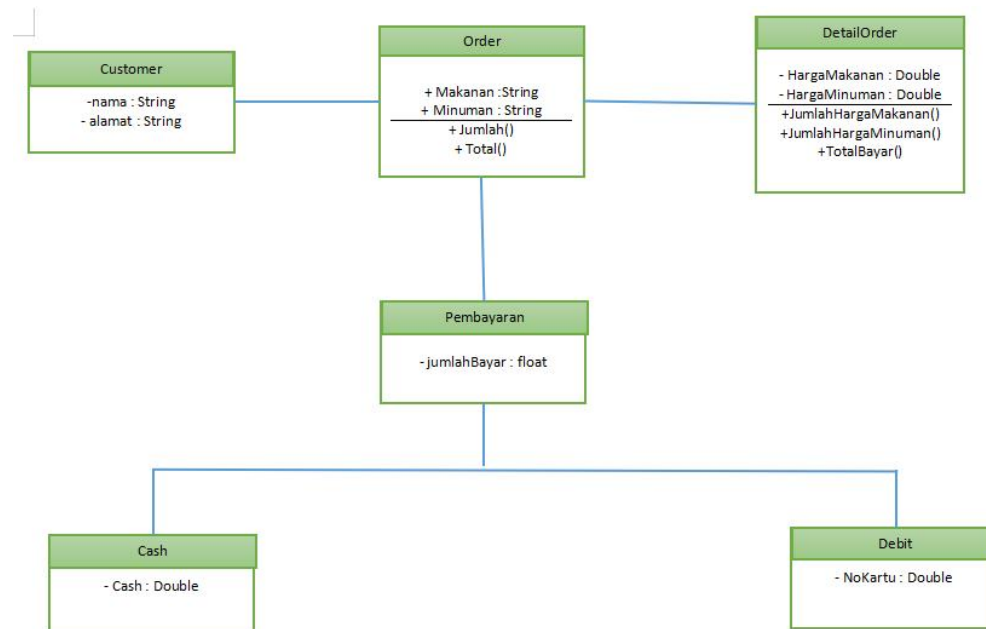NAMA   : VIENA DWI PUTRI MAULINA
NIM   : 312110469
KELAS   : TI.21.C1
MATA KULIAH   : PEMROGRAMAN ORIENTASI OBJEK
UJIAN AKHIR SEMESTER

1. Customer.java


```java
import java.util.ArrayList;
import java.util.List;

public class Customer {
    private String nama;
    private String alamat;
    private final List<Order> orderList = new ArrayList<Order>();

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

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

    public void addOrder(Order order) {
        this.orderList.add(order);
    }
}
```

2. Order.java

```java
import java.util.ArrayList;
import java.util.List;

public class Order {
    private String Makanan;
    private String Minuman;
    private String jumlah;
    private Customer customer;
    private List<Cash> cashList;
    private List<Debit> debitList;
    private List<OrderDetail> orderDetailList;

    public Order() {
        this.cashList = new ArrayList<Cash>();
        this.debitList = new ArrayList<Debit>();
        this.orderDetailList = new ArrayList<OrderDetail>();
        this.customer = new Customer();
    }

    public String getMakanan() {
        return Makanan; }
    public void setMakanan(String Makanan) {
        this.Makanan = Makanan; }

    public String getMinuman() {
        return Minuman;}
    public void setMinuman(String Minuman) {
        this.Minuman = Minuman;}
```

```java
    public String getjumlah() {
        return jumlah; }
    public void setjumlah(String jumlah) {
        this.jumlah = jumlah;}

    public void addCashList(Cash cash) {
        this.cashList.add(cash);}
    public void addDebitList(Debit debit) {
        this.debitList.add(debit);}
    public void addOrderDetail(OrderDetail orderDetail) {
        this.orderDetailList.add(orderDetail);}

    public void Jumlah() {
        System.out.println(x: "Menghitung Jumlah...");}
    public void Total() {
        System.out.println(x: "Menghitung Total...");}
}
```

3. OrderDetail.java

```java
public class OrderDetail {
    private int HargaMakanan;
    private int HargaMinuman;
    private final Order order;

    public OrderDetail(Order order) {
        this.order = order;
    }

    public int getHargaMakanan() {
        return HargaMakanan;
    }
    public void setHargaMakanan(int HargaMakanan) {
        this.HargaMakanan = HargaMakanan;
    }

    public int getHargaMinuman() {
        return HargaMinuman;
    }
    public void setHargaMinuman(int HargaMinuman) {
        this.HargaMinuman = HargaMinuman;
    }

    public void JumlahHargaMakanan() {
        System.out.println(x: "Menghitung Jumlah Harga Makanan....");
    }
    public void JumlahHargaMinuman() {
        System.out.println(x: "Menghitung Jumlah Harga Minuman....");
    }
}
```

4. Pembayaran.java

```java
D: > Kuliah > Semester3 > PBO > UAS OOP > J Pembayaran.ja
public abstract class Pembayaran {
    private float jumlahBayar;
    private final Order order;

    public Pembayaran() {
        order = new Order();
    }
}
```

5. Cash.java

```java
D: > Kuliah > Semester3 > PBO > UAS OOP > J Cash.java > ...
public class Cash extends Pembayaran {
    private float cash;

    public float getCash() {
        return cash;
    }

    public void setCash(float cash) {
        this.cash = cash;
    }
}
```

6. Debit.java

```java
public class Debit extends Pembayaran {
    private String NomorKartu;

    public void prosesBayar() {
        System.out.println(x: "Proses Pembayaran");
    }

    public String getNomorKartu() {
        return NomorKartu;
    }

    public void setNomorKartu(String NomorKartu) {
        this.NomorKartu = NomorKartu;
    }
}
```

7. Main.java

```java
public class Main {
    Run | Debug
    public static void main(String[] args) {
        Customer vien = new Customer();
        vien.setNama(nama: "Viena Maulina");
        vien.setAlamat(alamat: "Cikarang Utara, Bekasi");
        System.out.println("Pesanan : " + vien.getNama());
        System.out.println("Alamat Pesanan : " + vien.getAlamat());
        System.out.println(x: "=======================================================");

        Order order = new Order();
        vien.addOrder(order);
        order.setMakanan(Makanan: "Mie Ayam Bakso");
        order.setMinuman(Minuman: "Es Jeruk");
        order.setjumlah(jumlah: "2 porsi");
        System.out.println("Pesanan : " + order.getMakanan() + "+" + order.getMinuman());
        order.Jumlah();
        order.Total();
        System.out.println("Total pesanan : " + order.getjumlah());
        System.out.println(x: "=======================================================");
```

```java
        Cash cash = new Cash();
        cash.setCash((float) 40000.0);
        order.addCashList(cash);
        System.out.println("Total Pembayaran  : Rp" + (int) cash.getCash());
        System.out.println(x: "=======================================================");

        Debit debit = new Debit();
        debit.prosesBayar();
        debit.setNomorKartu(NomorKartu: "32162751927");
        order.addDebitList(debit);
        System.out.println("Nomor kartu debit : " + debit.getNomorKartu());
        System.out.println(x: "Selamat Menikmati");
    }
}
```

Output

```
Pesanan : Viena Maulina
Alamat Pesanan : Cikarang Utara, Bekasi
======================================================
Pesanan : Mie Ayam Bakso+Es Jeruk
Menghitung Jumlah...
Menghitung Total...
Total pesanan : 2 porsi
======================================================
Total Pembayaran   : Rp40000
======================================================
Proses Pembayaran
Nomor kartu debit : 32162751927
Selamat Menikmati
```

GUI

```java
import java.awt.Container;
import javax.swing.ButtonGroup;
import javax.swing.JButton;
import javax.swing.JComboBox;
import javax.swing.JFrame;
import javax.swing.JLabel;
import javax.swing.JRadioButton;
import javax.swing.JTextField;


public class Customer {


    public static void main(String[] args) {

        //============= Container =============
        JFrame custom = new JFrame( string:"CUSTOMER");
        //ukuran form
        custom.setSize( width:600,  height:800);
        // mengatur tombol close
        custom.setDefaultCloseOperation( operation:JFrame.EXIT_ON_CLOSE);
        // agar form ditengah
        custom.setLocationRelativeTo( c:null);
        // mengatur layout
        custom.setLayout( manager:null);
```

```java
        // ======= Bagian Componen ============

        JLabel labelcustom = new JLabel( string:"CUSTOMER");
        labelcustom.setBounds( x:180,  y:30,  width:100,  height:30);
        custom.add( comp:labelcustom);

        JLabel labelNama = new JLabel( string:"Nama        ");
        labelNama.setBounds( x:20,  y:80,  width:150,  height:25);
        custom.add( comp:labelNama);

        JTextField txtNama = new JTextField();
        txtNama.setBounds( x:150,  y:80,  width:150,  height:25);
        custom.add( comp:txtNama);

        JLabel labelAlamat = new JLabel( string:"Alamat       ");
        labelAlamat.setBounds( x:20,  y:110,  width:150,  height:25);
        custom.add( comp:labelAlamat);

        JTextField txtAlamat = new JTextField();
        txtAlamat.setBounds( x:150,  y:110,  width:150,  height:25);
        custom.add( comp:txtAlamat);
```

```java
		JLabel labelOrder = new JLabel( string:"ORDER");
		labelOrder.setBounds( x:180, y:140, width:150, height:50);
		custom.add( comp:labelOrder);

		JLabel labelPesanan = new JLabel( string:"Pilih Pesanan");
		labelPesanan.setBounds( x:40, y:190, width:150, height:25);
		custom.add( comp:labelPesanan);

		JLabel labelMakanan = new JLabel( string:"Makanan");
		labelMakanan.setBounds( x:40, y:220, width:150, height:25);
		custom.add( comp:labelMakanan);

		String Makan[] = {"Nasi Goreng","Mie Goreng","Ayam Goreng", "Mie Ayam Bakso"};
		JComboBox cbMakan = new JComboBox( es:Makan);
		cbMakan.setBounds( x:150, y:220, width:100, height:30);
		custom.add( comp:cbMakan);

		JLabel labelJPesan1 = new JLabel( string:"Jumlah Pesanan");
		labelJPesan1.setBounds( x:280, y:190, width:150, height:25);
		custom.add( comp:labelJPesan1);

		String Jumlah1[] = {"1","2","3", "4", "5"};
		JComboBox cbJumlah1 = new JComboBox( es:Jumlah1);
		cbJumlah1.setBounds( x:280, y:220, width:50, height:30);
		custom.add( comp:cbJumlah1);

		JLabel labelMinuman = new JLabel( string:"Minuman");
		labelMinuman.setBounds( x:40, y:270, width:150, height:25);
		custom.add( comp:labelMinuman);

		String Minum[] = {"Es Teh Manis","Es Jeruk","Cappucionno", "Air Putih"};
		JComboBox cbMinum = new JComboBox( es:Minum);
		cbMinum.setBounds( x:150, y:270, width:100, height:30);
		custom.add( comp:cbMinum);

		String Jumlah2[] = {"1","2","3", "4", "5"};
		JComboBox cbJumlah2 = new JComboBox( es:Jumlah2);
		cbJumlah2.setBounds( x:280, y:270, width:50, height:30);
		custom.add( comp:cbJumlah2);

		JLabel labelOrderDetail = new JLabel( string:"ORDER DETAIL");
		labelOrderDetail.setBounds( x:180, y:320, width:150, height:50);
		custom.add( comp:labelOrderDetail);

		JLabel labelHargaMakan = new JLabel( string:"Harga Makanan");
		labelHargaMakan.setBounds( x:20, y:390, width:150, height:25);
		custom.add( comp:labelHargaMakan);

		JTextField txtHargaMakan = new JTextField();
		txtHargaMakan.setBounds( x:150, y:390, width:150, height:25);
		custom.add( comp:txtHargaMakan);

		JLabel labelHargaMinum = new JLabel( string:"Harga Minum");
		labelHargaMinum.setBounds( x:20, y:420, width:150, height:25);
		custom.add( comp:labelHargaMinum);
```

```
114        JTextField txtHargaMinum = new JTextField();
115        txtHargaMinum.setBounds( x:150, y:420, width:150, height:25);
116        custom.add( comp:txtHargaMinum);
117
118        JTextField txtJum1 = new JTextField();
119        txtJum1.setBounds( x:320, y:390, width:40, height:25);
120        custom.add( comp:txtJum1);
121
122        JLabel Jum1 = new JLabel( string:"x");
123        Jum1.setBounds( x:310, y:390, width:40, height:25);
124        custom.add( comp:Jum1);
125
126        JTextField txtJum2 = new JTextField();
127        txtJum2.setBounds( x:320, y:420, width:40, height:25);
128        custom.add( comp:txtJum2);
129
130        JLabel Jum2 = new JLabel( string:"x");
131        Jum2.setBounds( x:310, y:420, width:40, height:25);
132        custom.add( comp:Jum2);
133
134        JLabel labelJPesan2 = new JLabel( string:"Jml");
135        labelJPesan2.setBounds( x:325, y:350, width:150, height:50);
136        custom.add( comp:labelJPesan2);
137
138        JLabel labelTotalBayar = new JLabel( string:"Total Bayar");
139        labelTotalBayar.setBounds( x:20, y:450, width:150, height:25);
140        custom.add( comp:labelTotalBayar);
141
142        JTextField txtTotalBayar = new JTextField();
143        txtTotalBayar.setBounds( x:150, y:450, width:150, height:25);
144        custom.add( comp:txtTotalBayar);
```

customer Customer main

```
146        JLabel labelPembayaran = new JLabel( string:"Pembayaran");
147        labelPembayaran.setBounds( x:180, y:480, width:150, height:50);
148        custom.add( comp:labelPembayaran);
149
150        JRadioButton radioCash = new JRadioButton();
151        radioCash.setText( text:"Cash");
152        radioCash.setBounds( x:130, y:530, width:80, height:50);
153        JRadioButton radioDebit = new JRadioButton();
154        radioDebit.setText( text:"Debit");
155        radioDebit.setBounds( x:250, y:530, width:80, height:50);
156        custom.add( comp:radioCash);
157        custom.add( comp:radioDebit);
158
159        ButtonGroup grouppay = new ButtonGroup();
160        grouppay.add( b:radioCash);
161        grouppay.add( b:radioDebit);
162
163        JLabel labelDebit = new JLabel( string:"Masukan Nomor Kartu");
164        labelDebit.setBounds( x:20, y:590, width:150, height:25);
165        custom.add( comp:labelDebit);
166
167        JTextField txtDebit = new JTextField();
168        txtDebit.setBounds( x:150, y:590, width:150, height:25);
169        custom.add( comp:txtDebit);
170        // menampilkan form
```

```
172
173            custom.setVisible( b:true);
174
175
176        JButton Submit = new JButton( string:"SUBMIT");
177        Submit.setBounds( x:160, y:650, width:80, height:25);
178        custom.add( comp:Submit);
179
180        JButton Reset = new JButton( string:"RESET");
181        Reset.setBounds( x:260, y:650, width:80, height:25);
182        custom.add( comp:Reset);
183
184    }
185
186
187 }
188
```

Output

CUSTOMER — □ ✕

CUSTOMER

Nama   Viena Maulina

Alamat   Cikarang Utara, Bekasi

ORDER

Pilih Pesanan   Jumlah Pesanan

Makanan   Mie Ayam B... ▾   2 ▾

Minuman   Es Jeruk ▾   2 ▾

ORDER DETAIL

		Jml
Harga Makanan	15000	x 2
Harga Minum	5000	x 2
Total Bayar	40000	

Pembayaran

● Cash   ○ Debit

Masukan Nomor Kartu [   ]