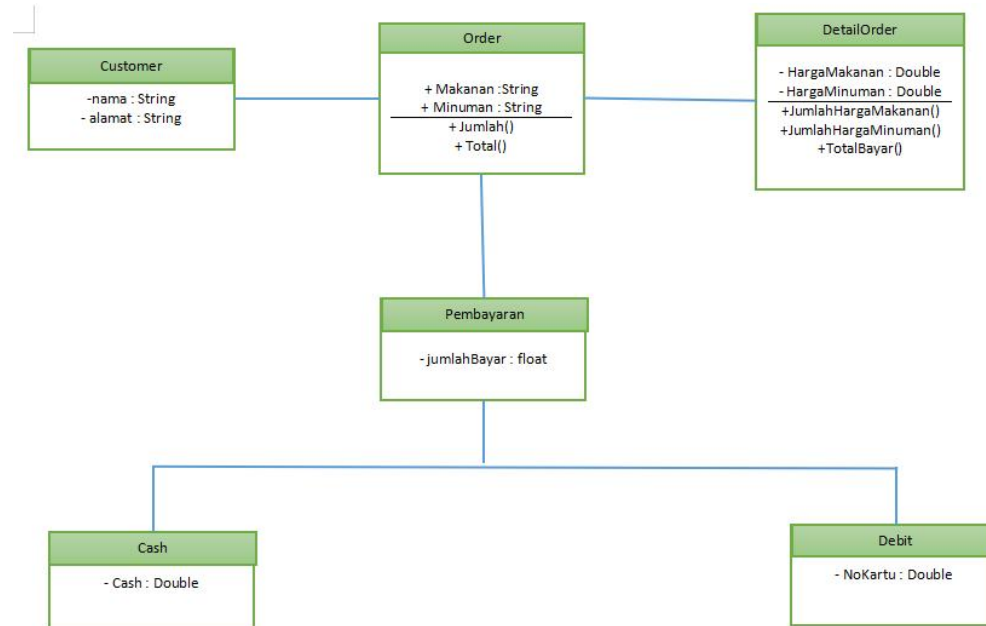


**NAMA** : VIENA DWI PUTRI MAULINA  
**NIM** : 312110469  
**KELAS** : TI.21.C1  
**MATA KULIAH** : PEMROGRAMAN ORIENTASI OBJEK  
**UJIAN AKHIR SEMESTER**



## 1. Customer.java

```
1
2 import java.util.ArrayList;
3 import java.util.List;
4
5 public class Customer {
6     private String nama;
7     private String alamat;
8     private final List<Order> orderList = new ArrayList<Order>();
9
10    public void setNama(String nama) {
11        this.nama = nama;
12    }
13    public String getNama() {
14        return nama;
15    }
16
17    public void setAlamat(String alamat) {
18        this.alamat = alamat;
19    }
20    public String getAlamat() {
21        return alamat;
22    }
23
24    public void addOrder(Order order) {
25        this.orderList.add(order);
26    }
27 }
```

## 2. Order.java

```
1  import java.util.ArrayList;
2  import java.util.List;
3
4  public class Order {
5      private String Makanan;
6      private String Minuman;
7      private String jumlah;
8      private Customer customer;
9      private List<Cash> cashList;
10     private List<Debit> debitList;
11     private List<OrderDetail> orderDetailList;
12
13     public Order() {
14         this.cashList = new ArrayList<Cash>();
15         this.debitList = new ArrayList<Debit>();
16         this.orderDetailList = new ArrayList<OrderDetail>();
17         this.customer = new Customer();
18     }
19
20     public String getMakanan() {
21         return Makanan; }
22     public void setMakanan(String Makanan) {
23         this.Makanan = Makanan; }
24
25     public String getMinuman() {
26         return Minuman;}
27     public void setMinuman(String Minuman) {
28         this.Minuman = Minuman;}
```

```
29
30     public String getjumlah() {
31         return jumlah; }
32     public void setjumlah(String jumlah) {
33         this.jumlah = jumlah;}
34
35     public void addCashList(Cash cash) {
36         this.cashList.add(cash);}
37     public void addDebitList(Debit debit) {
38         this.debitList.add(debit);}
39     public void addOrderDetail(OrderDetail orderDetail) {
40         this.orderDetailList.add(orderDetail);}
41
42     public void Jumlah() {
43         System.out.println(x: "Menghitung Jumlah...");}
44     public void Total() {
45         System.out.println(x: "Menghitung Total...");}
46 }
```

### 3. OrderDetail.java

```
1 public class OrderDetail {
2     private int HargaMakanan;
3     private int HargaMinuman;
4     private final Order order;
5
6     public OrderDetail(Order order) {
7         this.order = order;
8     }
9
10    public int getHargaMakanan() {
11        return HargaMakanan;
12    }
13    public void setHargaMakanan(int HargaMakanan) {
14        this.HargaMakanan = HargaMakanan;
15    }
16
17    public int getHargaMinuman() {
18        return HargaMinuman;
19    }
20    public void setHargaMinuman(int HargaMinuman) {
21        this.HargaMinuman = HargaMinuman;
22    }
23
24    public void JumlahHargaMakanan() {
25        System.out.println("Menghitung Jumlah Harga Makanan...");
26    }
27    public void JumlahHargaMinuman() {
28        System.out.println("Menghitung Jumlah Harga Minuman...");
29    }
30 }
```

### 4. Pembayaran.java

```
D: > Kuliah > Semester3 > PBO > UAS OOP > J Pembayaran.java
1 public abstract class Pembayaran {
2     private float jumlahBayar;
3     private final Order order;
4
5     public Pembayaran() {
6         order = new Order();
7     }
8 }
9
```

### 5. Cash.java

```
D: > Kuliah > Semester3 > PBO > UAS OOP > J Cash.java > ...
1 public class Cash extends Pembayaran {
2     private float cash;
3
4     public float getCash() {
5         return cash;
6     }
7
8     public void setCash(float cash) {
9         this.cash = cash;
10    }
11 }
12
```

## 6. Debit.java

```
D: > Kuliah > Semester3 > PBO > UAS OOP > J Debit.java > ...
1  public class Debit extends Pembayaran {
2      private String NomorKartu;
3
4      public void prosesBayar() {
5          System.out.println(x: "Proses Pembayaran");
6      }
7
8      public String getNomorKartu() {
9          return NomorKartu;
10     }
11
12     public void setNomorKartu(String NomorKartu) {
13         this.NomorKartu = NomorKartu;
14     }
15 }
16
```

## 7. Main.java

```
1  public class Main {
2      Run | Debug
3      public static void main(String[] args) {
4          Customer vien = new Customer();
5          vien.setName(nama: "Viena Maulina");
6          vien.setAlamat(alamat: "Cikarang Utara, Bekasi");
7          System.out.println("Pesanan : " + vien.getName());
8          System.out.println("Alamat Pesanan : " + vien.getAlamat());
9          System.out.println(x: "=====");
10
11         Order order = new Order();
12         vien.addOrder(order);
13         order.setMakanan(Makanan: "Mie Ayam Bakso");
14         order.setMinuman(Minuman: "Es Jeruk");
15         order.setjumlah(jumlah: "2 porsi");
16         System.out.println("Pesanan : " + order.getMakanan() + "+" + order.getMinuman());
17         order.Jumlah();
18         order.Total();
19         System.out.println("Total pesanan : " + order.getjumlah());
20         System.out.println(x: "=====");
21
22         Cash cash = new Cash();
23         cash.setCash((float) 40000.0);
24         order.addCashList(cash);
25         System.out.println("Total Pembayaran : Rp" + (int) cash.getCash());
26         System.out.println(x: "=====");
27
28         Debit debit = new Debit();
29         debit.prosesBayar();
30         debit.setNomorKartu(NomorKartu: "32162751927");
31         order.addDebitList(debit);
32         System.out.println("Nomor kartu debit : " + debit.getNomorKartu());
33         System.out.println(x: "Selamat Menikmati");
34     }
35 }
```

## 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

```
7
8 import java.awt.Container;
9 import javax.swing.ButtonGroup;
10 import javax.swing.JButton;
11 import javax.swing.JComboBox;
12 import javax.swing.JFrame;
13 import javax.swing.JLabel;
14 import javax.swing.JRadioButton;
15 import javax.swing.JTextField;
16
17
18 public class Customer {
19
20
21     public static void main(String[] args) {
22
23         //===== Container =====
24         JFrame custom = new JFrame( string:"CUSTOMER");
25         //ukuran form
26         custom.setSize( width:600, height:800);
27         // mengatur tombol close
28         custom.setDefaultCloseOperation( operation:JFrame.EXIT_ON_CLOSE);
29         // agar form ditengah
30         custom.setLocationRelativeTo( c:null);
31         // mengatur layout
32         custom.setLayout( manager:null);
33
34         // ===== Bagian Componen =====
35
36         JLabel labelcustom = new JLabel( string:"CUSTOMER");
37         labelcustom.setBounds( x:180, y:30, width:100, height:30);
38         custom.add( comp:labelcustom);
39
40         JLabel labelNama = new JLabel( string:"Nama ");
41         labelNama.setBounds( x:20, y:80, width:150, height:25);
42         custom.add( comp:labelNama);
43
44         JTextField txtNama = new JTextField();
45         txtNama.setBounds( x:150, y:80, width:150, height:25);
46         custom.add( comp:txtNama);
47
48         JLabel labelAlamat = new JLabel( string:"Alamat ");
49         labelAlamat.setBounds( x:20, y:110, width:150, height:25);
50         custom.add( comp:labelAlamat);
51
52         JTextField txtAlamat = new JTextField();
53         txtAlamat.setBounds( x:150, y:110, width:150, height:25);
54         custom.add( comp:txtAlamat);
```



```

56
57 JLabel labelOrder = new JLabel( string:"ORDER");
58 labelOrder.setBounds( x:180, y:140, width:150, height:50);
59 custom.add( comp:labelOrder);
60
61 JLabel labelPesanan = new JLabel( string:"Pilih Pesanan");
62 labelPesanan.setBounds( x:40, y:190, width:150, height:25);
63 custom.add( comp:labelPesanan);
64
65 JLabel labelMakanan = new JLabel( string:"Makanan");
66 labelMakanan.setBounds( x:40, y:220, width:150, height:25);
67 custom.add( comp:labelMakanan);
68
69 String Makan[] = {"Nasi Goreng","Mie Goreng","Ayam Goreng", "Mie Ayam Bakso"};
70 JComboBox cbMakan = new JComboBox( es:Makan);
71 cbMakan.setBounds( x:150, y:220, width:100, height:30);
72 custom.add( comp:cbMakan);
73
74 JLabel labelJPesan1 = new JLabel( string:"Jumlah Pesanan");
75 labelJPesan1.setBounds( x:280, y:190, width:150, height:25);
76 custom.add( comp:labelJPesan1);
77
78 String Jumlahl[] = {"1","2","3", "4", "5"};
79 JComboBox cbJumlahl = new JComboBox( es:Jumlahl);
80 cbJumlahl.setBounds( x:280, y:220, width:50, height:30);
81 custom.add( comp:cbJumlahl);

```

```

84 JLabel labelMinuman = new JLabel( string:"Minuman");
85 labelMinuman.setBounds( x:40, y:270, width:150, height:25);
86 custom.add( comp:labelMinuman);
87
88 String Minum[] = {"Es Teh Manis","Es Jeruk","Cappucionno", "Air Putih"};
89 JComboBox cbMinum = new JComboBox( es:Minum);
90 cbMinum.setBounds( x:150, y:270, width:100, height:30);
91 custom.add( comp:cbMinum);
92
93 String Jumlah2[] = {"1","2","3", "4", "5"};
94 JComboBox cbJumlah2 = new JComboBox( es:Jumlah2);
95 cbJumlah2.setBounds( x:280, y:270, width:50, height:30);
96 custom.add( comp:cbJumlah2);
97
98 JLabel labelOrderDetail = new JLabel( string:"ORDER DETAIL");
99 labelOrderDetail.setBounds( x:180, y:320, width:150, height:50);
100 custom.add( comp:labelOrderDetail);
101
102 JLabel labelHargaMakan = new JLabel( string:"Harga Makanan");
103 labelHargaMakan.setBounds( x:20, y:390, width:150, height:25);
104 custom.add( comp:labelHargaMakan);
105
106 JTextField txtHargaMakan = new JTextField();
107 txtHargaMakan.setBounds( x:150, y:390, width:150, height:25);
108 custom.add( comp:txtHargaMakan);
109
110 JLabel labelHargaMinum = new JLabel( string:"Harga Minum");
111 labelHargaMinum.setBounds( x:20, y:420, width:150, height:25);
112 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);

```

```

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: Vena Maulina

Alamat: Cikarang Utara, Bekasi

**ORDER**

Pilih Pesanan

Makanan: Mie Ayam B... x 2

Minuman: Es Jeruk x 2

**ORDER DETAIL**

Harga Makanan: 15000 x 2

Harga Minum: 5000 x 2

Total Bayar: 40000

**Pembayaran**

☒ Cash ☐ Debit

Masukan Nomor Kartu: