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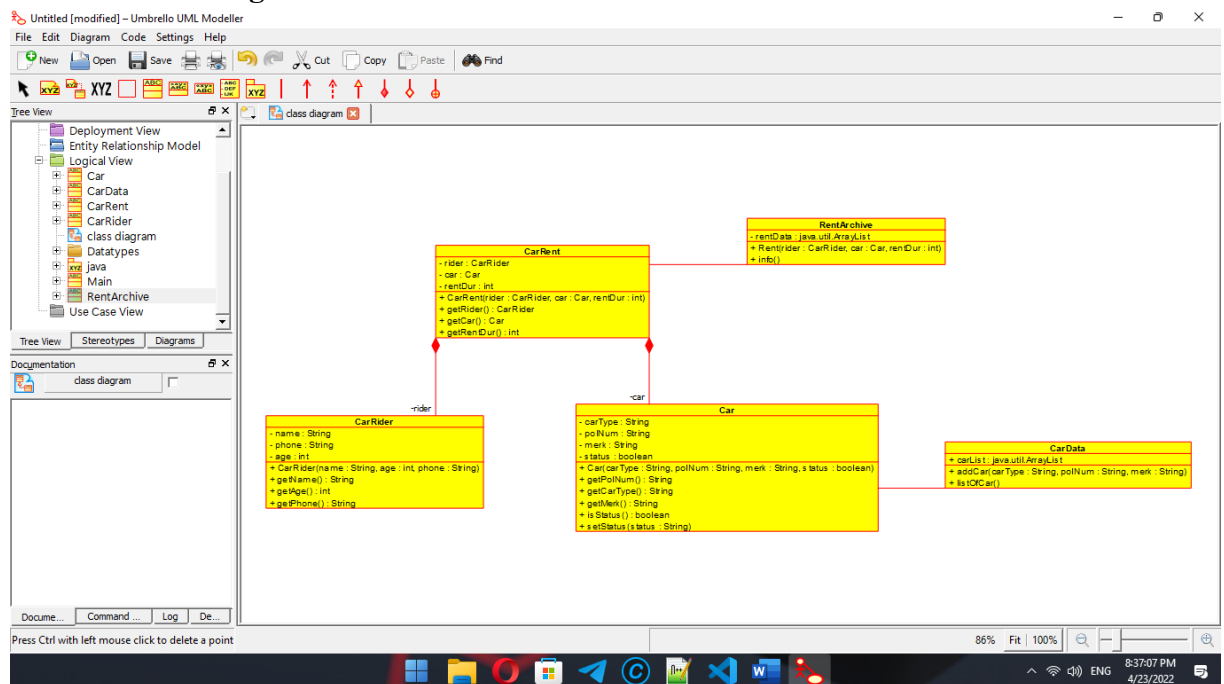
1. Tulis soal

Buat 4 CarRider berbeda

Tambahkan 4 jenis mobil berbeda ke arraylist data

Pastikan hasil output terdapat MOBIL BERHASIL DISEWA atau MAAF, MOBIL SUDAH DISEWA

2. Gambar class diagram



3. Kode program

a) Class Car

```

1 public class Car {
2     private String carType;
3     private String polNum;
4     private String merk;
5     private boolean status;
6
7     public Car(String carType, String polNum,
8 String merk, boolean status){
9         this.carType = carType;
10        this.polNum = polNum;
11        this.merk = merk;
12        this.status = status;
13    }
14 }

```

```
14     public String getPolNum() {
15         return this.polNum;
16     }
17
18     public String getCarType() {
19         return this.carType;
20     }
21
22     public String getMerk() {
23         return this.merk;
24     }
25
26     public boolean isStatus() {
27         return this.status;
28     }
29
30     public void setStatus(String status) {
31         if (status.equalsIgnoreCase("sewa")) {
32             this.status = false;
33         }
34     }
35 }
```

b) Class CarData

```
1  import java.util.ArrayList;
2
3  public class CarData {
4
5      ArrayList<Car> carList = new
        ArrayList<Car>();
6
7      public void addCar(String carType, String
        polNum, String merk) {
8          Car car = new Car(carType, polNum, merk,
        true);
9          carList.add(car);
10     }
11
12     public void listOfCar() {
13         String garis = "-----"
        -----";
14         System.out.println(garis);
15         System.out.println(" DAFTAR MOBIL");
16         System.out.println(garis);
17     }
```

```
18         for (int i = 0; i < carList.size(); i++){
19             System.out.println("TIPE MOBIL :
20             "+carList.get(i).getCarType());
21             System.out.println("NO. POLISI :
22             "+carList.get(i).getPolNum());
23             System.out.println("MERK MOBIL :
24             "+carList.get(i).getMerk());
25             System.out.println(garis);
26         }
27     System.out.println("");
28 }
29 }
```

c) **Class CarRent**

```
1  public class CarRent {
2      private CarRider rider;
3      private Car car;
4      private int rentDur;
5
6      public CarRent(CarRider rider, Car car, int
7      rentDur){
8          this.rider = rider;
9          this.car = car;
10         this.rentDur = rentDur;
11     }
12
13     public CarRider getRider(){
14         return this.rider;
15     }
16
17     public Car getCar(){
18         return this.car;
19     }
20
21     public int getRentDur(){
22         return this.rentDur;
23     }
24 }
```

d) **Class CarRider**

```
1 public class CarRider {
2     private String name, phone;
3     private int age;
4
5     public CarRider(String name, int age, String
phone){
6         this.name = name;
7         this.age = age;
8         this.phone = phone;
9     }
10    public String getName(){
11        return this.name;
12    }
13
14    public int getAge(){
15        return this.age;
16    }
17
18    public String getPhone(){
19        return this.phone;
20    }
21
22 }
```

e) **Class RentArchive**

```
1 import java.util.ArrayList;
2
3 public class RentArchive {
4     private ArrayList<CarRent> rentData = new
ArrayList<CarRent>();
5
6     public void Rent(CarRider rider, Car car, int
rentDur){
7         if (car.isStatus() == true){
8             System.out.println("MOBIL BERHASIL
DISEWA");
9             CarRent rent = new CarRent(rider,
car, rentDur);
10            rentData.add(rent);
11            car.setStatus("sewa");
12        } else {
13            System.out.println("MAAF, MOBIL SUDAH
DISEWA");
14        }
15    }
16
17    public void info(){
18        String garis = "-----";
19        System.out.println(garis);
20    }
21 }
```

```

19         System.out.println(garis);
20         System.out.println(" INFORMASI
21         PELANGGAN");
22         System.out.println(garis);
23         for (int i = 0; i < rentData.size();
24         i++){
25             System.out.println("NAMA PEMINJAM :
26             "+rentData.get(i).getRider().getName());
27             System.out.println("TIPE MOBIL      :
28             "+rentData.get(i).getCar().getCarType());
29             System.out.println("NO. POLISI      :
30             "+rentData.get(i).getCar().getPolNum());
31             System.out.println("LAMA RENTAL     :
32             "+rentData.get(i).getRentDur());
33             System.out.println(garis);
34         }
35     }
36 }

```

f) **Class Main**

```

1  import java.io.IOException;
2
3  public class Main {
4      public static void main(String[] args) throws
5      IOException{
6          CarRider sias = new CarRider("Simon
7          Cephas", 599, "021612340001");
8          CarRider anas = new CarRider("Andreas",
9          589, "021612340002");
10         CarRider yaob = new CarRider("Yakobus bin
11         Zeus", 600, "021612340003");
12         CarRider yoes = new CarRider("Yohanes",
13         550, "021612340004");
14         CarRider fius = new CarRider("Filipus",
15         499, "021612340005");
16         CarRider baus = new
17         CarRider("Bartolomeus", 510, "021612340006");
18         CarRider nail = new CarRider("Nautilus",
19         521, "021612340007");
20         CarRider toas = new CarRider("Tomas",
21         532, "021612340008");
22         CarRider yaus = new CarRider("Yakob
23         Aleus", 545, "021612340009");
24         CarRider taus = new CarRider("Tadeus",
25         565, "021612340010");
26         CarRider yuka = new CarRider("Yudas
27         Iskar", 512, "021612340011");
28     }
29 }

```

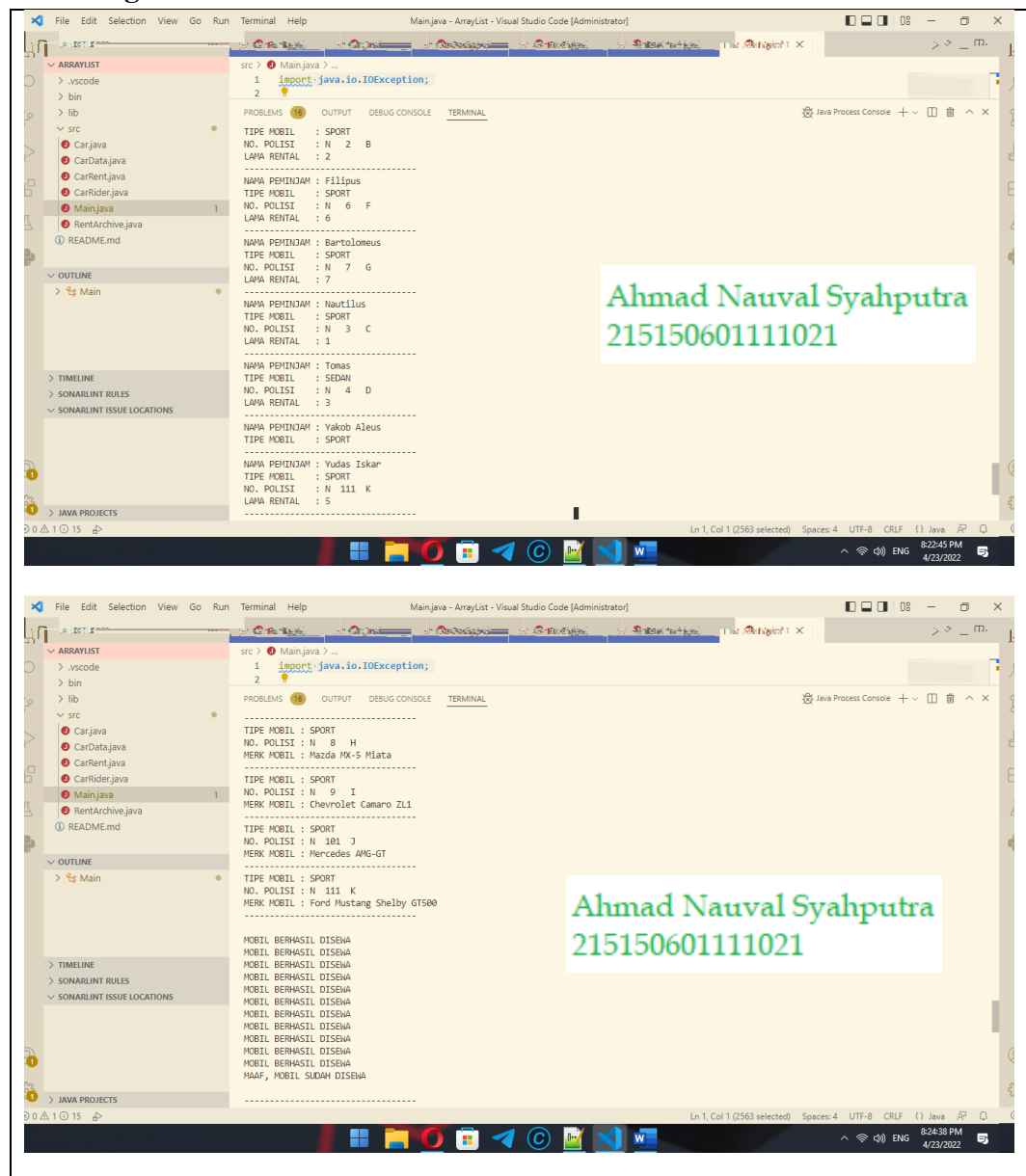
```


15      CarRider siel = new CarRider("Simon Zel",
16      601, "021612340012");
17
18      CarData data = new CarData();
19      data.addCar("SUV", "N    0    Z", "Honda");
20      data.addCar("SPORT", "N    1    A", "Dodge
21      Viper SRT-10");
22      data.addCar("SPORT", "N    2    B",
23      "Porsche 911 Turbo S");
24      data.addCar("SPORT", "N    3    C", "BMW
25      Z4");
26      data.addCar("SEDAN", "N    4    D", "Honda
27      Civic");
28      data.addCar("SUV", "N    5    E", "BMW X7
29      xDrive50i");
30      data.addCar("SPORT", "N    6    F",
31      "Lamborghini Aventador");
32      data.addCar("SPORT", "N    7    G", "Supra
33      A90");
34      data.addCar("SPORT", "N    8    H", "Mazda
35      MX-5 Miata");
36      data.addCar("SPORT", "N    9    I",
37      "Chevrolet Camaro ZL1");
38      data.addCar("SPORT", "N   101    J",
39      "Mercedes AMG-GT");
40      data.addCar("SPORT", "N   111    K", "Ford
41      Mustang Shelby GT500");
42
43      data.listOfCar();
44
45      RentArchive arsip = new RentArchive();
46      arsip.Rent(sias, data.carList.get(1), 9);
47      arsip.Rent(anas, data.carList.get(9),
48      12);
49      arsip.Rent(yaob, data.carList.get(0), 4);
50      arsip.Rent(yoes, data.carList.get(2), 2);
51      arsip.Rent(fius, data.carList.get(6), 6);
52      arsip.Rent(baus, data.carList.get(7), 7);
53      arsip.Rent(nail, data.carList.get(3), 1);
54      arsip.Rent(toas, data.carList.get(4), 3);
55      arsip.Rent(yaus, data.carList.get(8),
56      10);
57      arsip.Rent(taus, data.carList.get(10),
58      11);
59      arsip.Rent(yuka, data.carList.get(11),
60      5);
61      arsip.Rent(siel, data.carList.get(11),
62      8);

```

	<code>System.out.println("");</code>
47	<code>arsip.info();</code>
48	
49	<code>}</code>
50	<code>}</code>
51	
52	

4. Screenshot Program





```
src > Main.java > ...
1  import java.io.IOException;
2
3  public class Main {
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL

DAFTAR MOBIL

TIPE MOBIL : SUV
NO. POLISI : N 0 Z
MERK MOBIL : Honda

TIPE MOBIL : SPORT
NO. POLISI : N 1 A
MERK MOBIL : Dodge Viper SRT-10

TIPE MOBIL : SPORT
NO. POLISI : N 2 B
MERK MOBIL : Porsche 911 Turbo S

TIPE MOBIL : SPORT
NO. POLISI : N 3 C
MERK MOBIL : BMW Z4

TIPE MOBIL : SEDAN
NO. POLISI : N 4 D
MERK MOBIL : Honda Civic

TIPE MOBIL : SUV
NO. POLISI : N 5 E
MERK MOBIL : BMW X7 xDrive50i

TIPE MOBIL : SPORT
NO. POLISI : N 6 F
MERK MOBIL : Lamborghini Aventador

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