LAPORAN PRAKTIKUM POSTTEST 4

Pemrograman Berorientasi Objek



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C2

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```
import java.util.ArrayList;
 2
     import java.util.Scanner;
 3
 4
     public class RentalMobil {
         static ArrayList<Mobil> daftarMobil = new ArrayList<>();
 5
 6
         static Scanner scanner = new Scanner(System.in);
 7
         static int nextId = 1;
 8
         Run | Debug
9
         public static void main(String[] args) {
10
             int pilihan;
11
             do {
12
                 System.out.println(x:"\n===== Sistem Rental Mobil =====");
13
                 System.out.println(x:"1. Tambah Mobil Mewah");
14
                 System.out.println(x:"2. Tambah Mobil Ekonomi");
15
                 System.out.println(x:"3. Lihat Daftar Mobil");
                 System.out.println(x:"4. Edit Mobil");
16
17
                 System.out.println(x:"5. Hapus Mobil");
18
                 System.out.println(x:"6. Keluar");
19
                 System.out.print(s:"Pilih menu: ");
20
                 pilihan = scanner.nextInt();
21
                 scanner.nextLine();
22
23
                 switch (pilihan) {
24
                     case 1:
25
                         tambahMobilMewah();
26
                         break;
27
                      case 2:
                         tambahMobilEkonomi();
28
29
                         break;
30
                     case 3:
                         lihatMobil();
31
                         break;
32
33
                     case 4:
34
                         editMobil();
35
                         break;
36
                     case 5:
37
                         hapusMobil();
38
                         break;
39
                     case 6:
40
                         System.out.println(x:"Terima kasih telah menggunakan sistem.");
41
                         break;
42
                     default:
43
                         System.out.println(x:"Pilihan tidak valid.");
44
45
             } while (pilihan != 6);
46
```

```
public static void tambahMobilMewah() {
   System.out.print(s:"Nama mobil: ");
   String nama = scanner.nextLine();
   System.out.print(s:"Deskripsi: ");
   String deskripsi = scanner.nextLine();
   System.out.print(s:"Harga sewa: ");
   double hargaSewa = scanner.nextDouble();
   scanner.nextLine();
   System.out.print(s:"Ada WiFi (ya/tidak): ");
   String wifiInput = scanner.nextLine();
   boolean adaWiFi = wifiInput.equalsIgnoreCase(anotherString:"ya");
   System.out.print(s:"Ada TV (ya/tidak): ");
   String tvInput = scanner.nextLine();
   boolean adaTV = tvInput.equalsIgnoreCase(anotherString:"ya");
   daftarMobil.add(new MobilMewah(nextId++, nama, deskripsi, hargaSewa, adaWiFi, adaTV));
   System.out.println(x: "Mobil mewah berhasil ditambahkan.");
public static void tambahMobilEkonomi() {
   System.out.print(s:"Nama mobil: ");
   String nama = scanner.nextLine();
   System.out.print(s:"Deskripsi: ");
   String deskripsi = scanner.nextLine();
   System.out.print(s:"Harga sewa: ");
   double hargaSewa = scanner.nextDouble();
   System.out.print(s:"Konsumsi BBM (L/km): ");
   double konsumsiBBM = scanner.nextDouble();
   scanner.nextLine();
   daftarMobil.add(new MobilEkonomi(nextId++, nama, deskripsi, hargaSewa, konsumsiBBM));
   System.out.println(x: "Mobil ekonomi berhasil ditambahkan.");
```

```
public static void editMobil() {
   System.out.print(s:"Masukkan ID mobil yang ingin diedit: ");
   int id = scanner.nextInt();
   scanner.nextLine();
   Mobil mobilDiedit = null;
    for (Mobil mobil : daftarMobil) {
       if (mobil.getId() == id) {
           mobilDiedit = mobil;
           break;
   if (mobilDiedit == null) {
    System.out.println(x:"Mobil tidak ditemukan.");
       return;
   System.out.print(s:"Nama baru: ");
   String nama = scanner.nextLine();
   System.out.print(s:"Deskripsi baru: ");
   String deskripsi = scanner.nextLine();
   System.out.print(s:"Harga sewa baru: ");
   double hargaSewa = scanner.nextDouble();
   scanner.nextLine();
   if (mobilDiedit instanceof MobilMewah) {
       System.out.print(s:"Ada WiFi (ya/tidak): ");
       String wifiInput = scanner.nextLine();
       boolean wifi = wifiInput.equalsIgnoreCase(anotherString:"ya");
       System.out.print(s:"Ada TV (ya/tidak): ");
       String tvInput = scanner.nextLine();
       boolean tv = tvInput.equalsIgnoreCase(anotherString:"ya");
       daftarMobil.set(daftarMobil.indexOf(mobilDiedit), new MobilMewah(id, nama, deskripsi, hargaSewa, wifi, tv));
   } else if (mobilDiedit instanceof MobilEkonomi) {
       System.out.print(s:"Konsumsi BBM baru (L/km): ");
       double konsumsi = scanner.nextDouble();
       scanner.nextLine();
       daftarMobil.set(daftarMobil.indexOf(mobilDiedit), new MobilEkonomi(id, nama, deskripsi, hargaSewa, konsumsi));
   System.out.println(x: "Mobil berhasil diperbarui.");
```

```
public static void hapusMobil() {
    System.out.print(s:"Masukkan ID mobil yang ingin dihapus: ");
    int id = scanner.nextInt();
    scanner.nextLine();

    Mobil mobilDihapus = null;
    for (Mobil mobil : daftarMobil) {
        if (mobil.getId() == id) {
            mobilDihapus = mobil;
            break;
        }
    }

    if (mobilDihapus != null) {
        daftarMobil.remove(mobilDihapus);
        System.out.println(x:"Mobil berhasil dihapus.");
    } else {
        System.out.println(x:"Mobil tidak ditemukan.");
    }
}
```

```
class Mobil {
    private int id;
    private String nama;
    private String deskripsi;
    private double hargaSewa;
    public Mobil(int id, String nama, String deskripsi, double hargaSewa) {
       this.id = id;
        this.nama = nama;
        this.deskripsi = deskripsi;
        this.hargaSewa = hargaSewa;
    public int getId() {
      return id;
    public String getNama() {
    return nama;
    public String getDeskripsi() {
    return deskripsi;
    public double getHargaSewa() {
    return hargaSewa;
    public void setHargaSewa(double harga) {
    this.hargaSewa = harga;
    public void setHargaSewa(String harga) {
      this.hargaSewa = Double.parseDouble(harga);
    public void tampilFiturKhusus() {
      System.out.println(x:"Tidak ada fitur khusus.");
    @Override
    public String toString() {
    return "ID: " + id + ", Nama: " + nama + ", Deskripsi: " + deskripsi + ", Harga Sewa: " + hargaSewa;
```

```
✓ class MobilMewah extends Mobil {
     private boolean adaWiFi;
     private boolean adaTV;
     public MobilMewah(int id, String nama, String deskripsi, double hargaSewa, boolean adaWiFi, boolean adaTV) {
         super(id, nama, deskripsi, hargaSewa);
         this.adaWiFi = adaWiFi;
         this.adaTV = adaTV;
     @Override
     public String toString() {
        return super.toString() + ", WiFi: " + (adaWiFi ? "Ya" : "Tidak") + ", TV: " + (adaTV ? "Ya" : "Tidak");
     @0verride
     public void tampilFiturKhusus() {
         System.out.println("Fitur: WiFi = " + (adaWiFi ? "Ya" : "Tidak") + ", TV = " + (adaTV ? "Ya" : "Tidak"));

✓ class MobilEkonomi extends Mobil {
     private double konsumsiBBM;
     public MobilEkonomi(int id, String nama, String deskripsi, double hargaSewa, double konsumsiBBM) {
         super(id, nama, deskripsi, hargaSewa);
         this.konsumsiBBM = konsumsiBBM;
     @Override
     public String toString() {
         return super.toString() + ", Konsumsi BBM: " + konsumsiBBM + " L/km";
     @0verride
     public void tampilFiturKhusus() {
         System.out.println("Konsumsi BBM: " + konsumsiBBM + " L/km");
```