Postesst 5

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Kelas:C1 23

```
import java.util.ArrayList;
import java.util.Iterator;
import java.util.Scanner;
abstract class Laporan {
    private final String id;
    private String namaItem;
    private double harga;
    public Laporan(String id, String namaItem, double harga) {
        this.id = id;
        this.namaItem = namaItem;
        this.harga = harga;
    public String getId() {
        return id;
    public String getNamaItem() {
        return namaItem;
    public void setNamaItem(String namaItem) {
        this.namaItem = namaItem;
    public double getHarga() {
        return harga;
```

```
public double getHarga() {
        return harga;
   public void setHarga(double harga) {
       this.harga = harga;
    public abstract String getJenis();
   public final void info() {
       System.out.println(x:"Data laporan finansial berhasil diproses.");
   @Override
   public String toString() {
        return "ID: " + id +
              " | Jenis: " + getJenis() +
              " | Nama Item: " + namaItem +
              " | Harga: Rp " + harga;
class LaporanPenjualan extends Laporan {
   public LaporanPenjualan(String id, String namaItem, double harga) {
       super(id, namaItem, harga);
```

```
ciass Laporanrenjuatan extends Laporan
         @Override
         public String getJenis() {
             return "Penjualan";
     final class LaporanPengeluaran extends Laporan {
         public LaporanPengeluaran(String id, String namaItem, double harga) {
             super(id, namaItem, harga);
         @Override
         public String getJenis() {
             return "Pengeluaran";
71
     public class LaporanList {
         private static ArrayList<Laporan> laporanList = new ArrayList<>();
         private static Scanner scanner = new Scanner(System.in);
         public static void main(String[] args) {
             while (true) {
                 tampilkanMenu();
                 int pilihan = scanner.nextInt();
                 scanner.nextLine();
                 switch (pilihan) {
                     case 1:
```

```
case 1:
                tambahData();
                break;
            case 2:
                tampilkanData();
                break;
            case 3:
                ubahData();
                break;
            case 4:
               hapusData();
                break;
            case 5:
                System.out.println(x:"Keluar dari program...");
                System.exit(status:0);
                break;
            default:
                System.out.println(x:"Pilihan tidak valid! Coba lagi.");
private static void tampilkanMenu() {
    System.out.println(x:"\n=== Menu Sistem Laporan Finansial Cafe Syafar ===");
    System.out.println(x:"1. Tambah Data");
    System.out.println(x:"2. Tampilkan Data");
    System.out.println(x:"3. Ubah Data");
```

```
104
          private static void tampilkanMenu() {
              System.out.println(x:"3. Ubah Data");
108
109
              System.out.println(x:"4. Hapus Data");
              System.out.println(x:"5. Keluar");
111
              System.out.print(s:"Pilih menu (1-5): ");
113
          private static void tambahData() {
115
              System.out.println(x:"\n=== Tambah Data ===");
              System.out.print(s:"Pilih jenis data (1. Penjualan, 2. Pengeluaran): ");
117
              int jenis = scanner.nextInt();
                                                          Close
              scanner.nextLine();
119
              System.out.print(s:"Masukkan ID: ");
121
              String id = scanner.nextLine();
              System.out.print(s:"Masukkan Nama Item: ");
123
              String namaItem = scanner.nextLine();
              System.out.print(s:"Masukkan Harga: Rp ");
125
              double harga = scanner.nextDouble();
              scanner.nextLine();
127
              Laporan laporanBaru;
129
              if (jenis == 1) {
130
                  laporanBaru = new LaporanPenjualan(id, namaItem, harga);
131
                  laporanBaru = new LaporanPengeluaran(id, namaItem, harga);
```

```
114
          private static void tambahData() {
135
              laporanList.add(laporanBaru);
136
              laporanBaru.info();
137
              System.out.println(x:"Data berhasil ditambahkan.");
138
          private static void tampilkanData() {
              System.out.println(x:"\n=== Tampilkan Data ===");
              if (laporanList.isEmpty()) {
                  System.out.println(x:"Tidak ada data untuk ditampilkan.");
              } else {
                  for (Laporan laporan : laporanList) {
                      System.out.println(laporan);
                  }
148
149
151
          private static void ubahData() {
152
              System.out.println(x:"\n=== Ubah Data ===");
              System.out.print(s:"Masukkan ID Laporan yang ingin diubah: ");
154
              String id = scanner.nextLine();
155
              boolean ditemukan = false;
              for (Laporan laporan : laporanList) {
                  if (laporan.getId().equals(id)) {
                      ditemukan = true;
160
                      System.out.print(s:"Masukkan Nama Item Baru: ");
                      String namaItemBaru = scanner.nextLine();
```

```
String namaItemBaru = scanner.nextLine();
            System.out.print(s:"Masukkan Harga Baru: Rp ");
            double hargaBaru = scanner.nextDouble();
            scanner.nextLine();
            laporan.setNamaItem(namaItemBaru);
            laporan.setHarga(hargaBaru);
            System.out.println(x:"Data berhasil diubah.");
            break;
   if (!ditemukan) {
       System.out.println("Data dengan ID " + id + " tidak ditemukan.");
private static void hapusData() {
   System.out.println(x:"\n=== Hapus Data ===");
   System.out.print(s:"Masukkan ID Laporan yang ingin dihapus: ");
   String id = scanner.nextLine();
   Iterator<Laporan> iterator = laporanList.iterator();
   boolean ditemukan = false;
   while (iterator.hasNext()) {
       Laporan laporan = iterator.next();
```

```
Laporan laporan = iterator.next();

if (laporan.getId().equals(id)) {

    iterator.remove();
    ditemukan = true;
    System.out.println(x:"Data berhasil dihapus.");
    break;
}

193
194
195
196
    if (!ditemukan) {
        System.out.println("Data dengan ID " + id + " tidak ditemukan.");
198
199
}
200
}
201
```