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```
● ● ● <u></u> Main.java
import myClass.Barang;
import myManajemen.hapusBarang;
     private static final int idCounter = 1;
private static final int supplierIdCounter = 1;
     private static final lihatsupplier supplierViewer = new tambahBarang(daftarSupplier); private static final tambahBarang barangManager = new tambahBarang(daftarBarang, scanner, idCounter);
     private static final linatBarang barangUewer = new lihatBarang(daftarBarang);
private static final ubahBarang barangUpdater = new ubahBarang(daftarBarang, scanner);
     private static final hapusBarang barangDeleter = new hapusBarang(daftarBarang, scanner);
                      System.out.println("1. Tambah Barang");
                      System.out.println("2. Lihat Barang");
                      System.out.println("3. Ubah Barang");
                      System.out.println("4. Hapus Barang");
                     int pilihan = scanner.nextInt();
scanner.nextLine();
                           case 4 → barangDeleter.hapusBarang();
case 5 → supplierManager.tambahSupplier();
case 6 → supplierViewer.lihatSupplier();
case 7 → {
                                System.out.println("Program selesai. Terima kasih!");
                           default → System.out.println("Pilihan tidak valid. Silakan coba lagi.");
                      System.out.println("Input tidak valid. Harap masukkan angka sesuai menu.");
                     System.out.println("Terjadi kesalahan: " + e.getMessage());
```

```
🚣 tambahSupplier.java
package myManajemen;
import myClass.Supplier;
    private final ArrayList<Supplier> daftarSupplier;
    public tambahSupplier(ArrayList<Supplier> daftarSupplier, Scanner scanner, int supplierIdCounter) {
    public void tambahSupplier() {
            System.out.print("Masukkan nama supplier: ");
            String nama = scanner.nextLine();
            if (nama.isEmpty()) {
                throw new IllegalArgumentException("Nama supplier tidak boleh kosong.");
            String alamat = scanner.nextLine();
            if (alamat.isEmpty()) {
                throw new IllegalArgumentException("Alamat supplier tidak boleh kosong.");
            System.out.print("Masukkan telepon supplier: ");
            String telepon = scanner.nextLine();
            if (telepon.isEmpty()) {
                throw new IllegalArgumentException("Telepon supplier tidak boleh kosong.");
            if (!telepon.matches("\\d+")) {
                throw new IllegalArgumentException("Telepon supplier harus berupa angka.");
            Supplier supplier = new Supplier(supplierIdCounter++, nama, alamat, telepon);
            System.out.println("Supplier berhasil ditambahkan!");
            System.out.println("Error: " + e.getMessage());
            System.out.println("Terjadi kesalahan: " + e.getMessage());
```

```
• • tambahBarang.java
public class tambahBarang {
   private final ArrayList<Barang> daftarBarang;
   private final Scanner scanner;
       private int idCounter;
           this.daftarBarang = daftarBarang;
this.scanner = scanner;
      public void tambahBarang() {
                 System.out.println("Pilih jenis barang:");
System.out.println("1. Barang Umum");
System.out.println("2. Brush Pen");
System.out.println("3. Pulpen");
                 System.out.print("Pilihan: ");
                 int jenis = scanner.nextInt();
scanner.nextLine();
                 if (jenis < 1 || jenis > 3) {
    throw new IllegalArgumentException("Pilihan jenis barang tidak valid.");
                      throw new IllegalArgumentException("Nama barang tidak boleh kosong.");
                 System.out.print("Masukkan stok barang: ");
                 double harga = scanner.nextDouble();
if (harga < 0) {</pre>
                       throw new IllegalArgumentException("Harga barang tidak boleh negatif.");
                             boolean blend = Boolean.parseBoolean(scanner.nextLine());
                             System.out.print("Masukkan jenis pulpen refillable (true or false): ");
boolean refillable = Boolean.parseBoolean(scanner.nextLine());
            System.out.println("Barang berhasil ditambahkan!");
} catch (InputMismatchException e) {
                 System.out.println("Input tidak valid. Harap masukkan data dengan format yang benar."); scanner.nextLine();
            } catch (IllegalArgumentException e) {
    System.out.println("Error: " + e.getMessage());
```

```
package myManajemen;
import java.util.ArrayList;
import myClass.Supplier;

public class lihatSupplier {
    private final ArrayList<Supplier> daftarSupplier;

    public lihatSupplier(ArrayList<Supplier> daftarSupplier) {
        this.daftarSupplier = daftarSupplier;
    }

    public void lihatSupplier() {
        if (daftarSupplier.isEmpty()) {
            System.out.println("Belum ada supplier yang terdaftar.");
            return;
        }
        System.out.println("\n\implier Daftar Supplier \( \implier \);
        for (Supplier supplier : daftarSupplier) {
                 System.out.println(supplier);
            }
        }
    }
}
```

```
섗 lihatBarang.java
package myManajemen;
import java.util.ArrayList;
import myClass.Barang;
public final class lihatBarang {
    private final ArrayList<Barang> daftarBarang;
    public lihatBarang(ArrayList<Barang> daftarBarang) {
        this.daftarBarang = daftarBarang;
    public void lihatBarang() {
        if (daftarBarang.isEmpty()) {
            System.out.println("Belum ada barang yang terdaftar.");
            return;
        System.out.println("\n≡ Daftar Barang ≡");
        for (Barang barang : daftarBarang) {
            barang.printDetails();
```

```
package myClass;

public class Pulpen extends Barang {
   private boolean refillable;

   public Pulpen(int id, String nama, int stok, double harga, boolean refillable) {
        super(id, nama, stok, harga);
        this.refillable = refillable;
   }

   public void setRefillable(boolean refillable) {
        this.refillable = refillable;
   }

   aOverride
   public String getDeskripsi() {
        return "Pulpen (refillable: " + refillable + ")";
   }

   aOverride
   public String toString() {
        return super.toString() + " | Refillable: " + refillable;
   }
}
```

```
package myClass;

public final class Supplier {
    private final int id;
    private final String nama;
    private final String alamat;
    private final String telepon;

public Supplier(int id, String nama, String alamat, String telepon) {
        this.id = id;
        this.nama = nama;
        this.alamat = alamat;
        this.telepon = telepon;
    }

    @Override
    public final String toString() {
        return "ID: " + id + " | Nama: " + nama + " | Alamat: " + alamat + " | Telepon: " + telepon;
    }
}
```

```
Printable.java

package myClass;

public interface Printable {
   void printDetails();
}
```

```
package myClass;

public class BrushPen extends Barang {
    private boolean blend;

    public BrushPen(int id, String nama, int stok, double harga, boolean blend) {
        super(id, nama, stok, harga);
        this.blend = blend;
    }

    public void setBlend(boolean blend) {
        this.blend = blend;
    }

    a0verride
    public String getDeskripsi() {
        return "BrushPen (blend: " + blend + ")";
    }

    a0verride
    public String toString() {
        return super.toString() + " | Blend: " + blend;
    }
}
```

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```
package myClass;

public class BarangUmum extends Barang {
    public BarangUmum(int id, String nama, int stok, double harga) {
        super(id, nama, stok, harga);
    }

    @Override
    public String getDeskripsi() {
        return "Barang Umum (tanpa atribut khusus)";
    }
}
```

```
Barang.java
package myClass;
    private String nama;
    private int stok;
private double harga;
    private static int totalBarang = 0;
    public Barang(int id, String nama, int stok, double harga) {
    public int getId() {
    public String getNama() {
         } catch (IllegalArgumentException e) {
   System.out.println("Error: " + e.getMessage());
                  throw new IllegalArgumentException("Harga tidak boleh negatif.");
             System.out.println("Error: " + e.getMessage());
    public static int getTotalBarang() {
   return totalBarang;
    public String toString() {
    return "ID: " + id + " | Nama: " + nama + " | Stok: " + stok + " | Harga: " + harga;
         System.out.println(this.toString());
```