Class Admin:

```
. .
 package model;
    public class Admin extends User {
         private String username;
         private String email;
        public Admin(String idAdmin, String namaAdmin, String username, String password, String email, String noTelp) {
    super(idAdmin, namaAdmin, noTelp, password);
    this.username = username;
    this.email = email;
        public String getUsername() {
        return username;
}
       public String getEmail() {
       return email;
}
        this.username = username;
        public void setUsername(String username) {
       this.email = email;
        public void setEmail(String email) {
        @Override
        public void displayInfo() {
        public void displayInfo(boolean detail) {
            super.displayInfo(detail); // panggil dari User
           if (detail) {
                  System.out.println("Username: " + username);
System.out.println("Email: " + email);
         public String getRole() {
    return "Admin";
```

```
. .
2
5 public class BukuService {
6     private static ArrayList<Buku> listBuku = new ArrayList<Buku>();
               public void tambahBuku(Buku buku) {
    listBuku.add(buku);
}
             public void tampilkanBuku() {
    if(daftarBuku().isEmpty()) {
        System.out.println("Tidak ada buku yang tersedia");
    } else {
        for(Buku buku : daftarBuku()) {
            buku.menampilkanBuku();
        }
    }
}
                public Buku cariBuku(string idBuku) {
  for (Buku buku : listBuku) {
    if (buku.getidBuku().equals(idBuku)) {
      return buku;
    }
  }
  return null;
}
                public void updateBuku(String idBuku, double hargaBuku, int stok) {
   Buku buku = cariBuku(idBuku);
   if (buku != null) {
      buku.setHarga(nargaBuku);
      buku.setHarga(nargaBuku);
      buku.setHok(stok);
      System.out.println("Buku berhasil diupdate!");
   } else {
      System.out.println("Buku tidak ditemukan.");
   }
}
                public boolean hapusBuku(String idBuku) {
    Buku buku = cariBuku(idBuku);
    if (buku != null) {
        istBuku.remove(buku);
        System.out.println("Buku berhasil dihapus!");
        return true;
    } else {
        System.out.println("Buku tidak ditemukan.");
        return false;
    }
}
                public ArrayList<Buku> daftarBuku() {
    return listBuku;
}
```

```
. .
package model;
   public class Buku {
   private String idBuku;
       protected String judulBuku;
       String genre;
       private int stok;
       private double hargaBuku;
       public Buku(String idBuku, String judulBuku, String genre, int stok, double hargaBuku2) {
         this.idBuku = idBuku;
this.judulBuku = judulBuku;
         this.genre = genre;
this.stok = stok;
           this.hargaBuku = hargaBuku2;
      public String getIdBuku() {
      return idBuku;
}
      public String getJudulBuku() {
          return judulBuku;
      public String getGenre() {
         return genre;
      public int getStok() {
      return stok;
}
      public double getHargaBuku() {
      return hargaBuku;
}
       public void setHarga(double hargaBuku)
           this.hargaBuku = hargaBuku;
           this.stok = stok;
```

Class Main

Overload bagian user

```
1 // Overload
2 public void displayInfo(boolean detail) {
3    if (detail) {
4        System.out.println("ID: " + id);
5        System.out.println("Nama: " + nama);
6        System.out.println("role: " + role);
7        System.out.println("No HP: " + noTelp);
8    } else {
9        displayInfo(); // panggil yang versi singkat
10    }
11 }
```

Override bagian pelanggan

```
1 @Override
2  public void displayInfo() {
3     super.displayInfo();
4  }
5
6  @Override
7  public void displayInfo(boolean detail) {
8     super.displayInfo(detail); // panggil dari User
9
10     if (detail) {
11         System.out.println("Alamat: " + alamat);
12     }
13     }
14
15     @Override
16     public String getRole() {
17         return "Pelanggan";
18     }
```

Override dibagian admin

```
@Override
public void displayInfo() {
    super.displayInfo();
}

@Override
public void displayInfo(boolean detail) {
    super.displayInfo(detail); // panggil dari User

    if (detail) {
        System.out.println("Username: " + username);
        System.out.println("Email: " + email);
    }
}

@Override
public String getRole() {
    return "Admin";
}
```

```
1 package model;
   public class Pelanggan extends User {
   private String alamat;
        public Pelanggan(String idPelanggan, String namaPelanggan, String alamat, String noTelp, String password) {
           super(idPelanggan, namaPelanggan, noTelp, password);
this.alamat = alamat;
       public String getIdPelanggan() {
      public String getNamaPelanggan() {
           return nama;
      public String getNoTelpPelanggan() {
           return noTelp;
      return password;
}
       public String getPasswordPelanggan() {
      public String getAlamat() {
    return alamat;
}
       @Override
       @Override
     if (detail) {
    System.out
}
                 System.out.println("Alamat: " + alamat);
        @Override
       public String getRole() {
          return "Pelanggan";
```

```
. .
        protected String id;
protected String nama;
         protected String noTelp;
         protected String password;
        protected String role;
         public User(String id, String nama, String noTelp, String password) {
              this.nama = nama;
              this.noTelp = noTelp;
              this.password = password;
        return id;
         public String getNama() {
             return nama;
         public String getNoTelp() {
         return noTelp;
             return password;
         public void setPassword(String password) {
             this.password = password;
         public String getRole() {
              return "User";
         public void displayInfo() {
    System.out.println("ID: " + id);
    System.out.println("Nama: " + nama);
47 public void displayInfo(boolean detail) {
        if (detail) {
           System.out.println("ID: " + id);
System.out.println("Nama: " + nama);
System.out.println("role: " + role);
System.out.println("No HP: " + noTelp);
         public void setPassword(String password, String confirmPassword) {
            if (password.equals(confirmPassword)) {
                  this.password = password;
                   System.out.println("Password dan konfirmasi tidak cocok!");
```