

Nama : Wina Aulia Nugrasari

NIM : 2109106118

POSTTEST 5

Source Code

Posttest5.java

```
package com.mycompany.posttest5;

import java.io.BufferedReader;
import java.io.IOException;
import java.io.InputStreamReader;
import java.util.ArrayList;

/**
 *
 * @author Swift 3
 */
public class Posttest5 {
    static BufferedReader input = new BufferedReader(new
InputStreamReader(System.in));
    static ArrayList<KonserKpop> listkp = new ArrayList<>();
    static ArrayList<KonserRock> listrk = new ArrayList<>();

    public static void froze() throws IOException {
        System.out.print("Tekan enter untuk melanjutkan... ");
        input.readLine();
        System.out.println("");
    }

    static final void display() { // final method
        System.out.println("Terima kasih telah menggunakan program ini!");
    }

    public static void tambahdata() throws IOException {
        System.out.println("\n-----");
        System.out.println("--    Tambah Pesanan    --");
        System.out.println("-----");
        System.out.println("|    1. Konser Kpop    |");
        System.out.println("|    2. Konser Rock    |");
        System.out.println("-----");
        System.out.print("Pilih Menu : ");
        int pil = Integer.parseInt(input.readLine());
        if(pil == 1){
            System.out.println("\n---- Masukkan Data Kpop ----");
            System.out.print("Masukkan Nama Konser : ");
            String namaKonser = input.readLine();
            System.out.print("Masukkan Lokasi : ");
            String alamat = input.readLine();
        }
    }
}
```

```

        System.out.print("Masukkan Tanggal    : ");
        String tanggal = input.readLine();
        System.out.print("Masukkan Group      : ");
        String band = input.readLine();
        System.out.print("Masukkan Harga Tiket  : ");
        int harga = Integer.parseInt(input.readLine());
        System.out.println("-----");
        KonserKpop kpop = new KonserKpop(namaKonser, alamat, tanggal, band, harga);
        listkp.add(kpop);
        kpop.info(namaKonser);

    }else if(pil == 2){
        System.out.println("\n---- Masukkan Data Rock ----");
        System.out.print("Masukkan Nama konser  : ");
        String namaKonser = input.readLine();
        System.out.print("Masukkan Lokasi      : ");
        String alamat = input.readLine();
        System.out.print("Masukkan Tanggal    : ");
        String tanggal = input.readLine();
        System.out.print("Masukkan Band       : ");
        String band = input.readLine();
        System.out.print("Masukkan Harga Tiket : ");
        int harga = Integer.parseInt(input.readLine());
        System.out.println("-----");
        KonserRock rock = new KonserRock(namaKonser, alamat, tanggal, band, harga);
        listrk.add(rock);
        rock.info(namaKonser);

    }else{
        System.out.println("Pilihan Salah");
    }
}

public static void tampil() throws IOException{
    System.out.println("\n-----");
    System.out.println("--      Read Pesanan      --");
    System.out.println("-----");
    System.out.println("|    1. Konser Kpop    |");
    System.out.println("|    2. Konser Rock    |");
    System.out.println("-----");
    System.out.print("Pilih Menu: ");
    int pil = Integer.parseInt(input.readLine());
    if(pil == 1){
        System.out.println("\n---- List Data Konser KPOP ----");
        if (listkp.isEmpty()){
            System.out.println("Belum ada data yang tersimpan!");
        }else{
            for(int i = 0; i < listkp.size();i++){
                System.out.println("Data indeks ke-" + (i + 1));
                listkp.get(i).tampil();
            }
        }
    }
}

```

```

    }
    }
    System.out.println("-----");
} else if(pil == 2){
    System.out.println("\n---- List Data Konser Rock ----");
    if (listrk.isEmpty()){
        System.out.println("Belum ada data yang tersimpan!");
    } else {
        for(int i = 0; i < listrk.size(); i++){
            System.out.println("Data indeks ke-" + (i + 1));
            listrk.get(i).tampil();
        }
    }
    System.out.println("-----");
} else {
    System.out.println("Pilihan salah");
}
}
}

```

```

public static void ubahdata() throws IOException {
    System.out.println("\n-----");
    System.out.println("--      Ubah Pesanan      --");
    System.out.println("-----");
    System.out.println("|      1. Konser Kpop      |");
    System.out.println("|      2. Konser Rock      |");
    System.out.println("-----");
    System.out.print("Pilih Data: ");
    int pil = Integer.parseInt(input.readLine());
    if(pil == 1){
        if (listkp.isEmpty()) {
            System.out.println("\n-----");
            System.out.println("- Belum ada data yang tersimpan! - ");
            System.out.println("-----");
        } else {
            for(int i = 0; i < listkp.size(); i++){
                System.out.println("\nData ke-" + (i+1));
                listkp.get(i).tampil();
            }
            System.out.print("Masukkan indeks data kpop yang ingin diubah: ");
            int index = Integer.parseInt(input.readLine());

            if(index <= listkp.size() || index > 0){
                System.out.println("\n---- Masukkan Data Baru ----");
                System.out.print("\nMasukkan Nama Konser  : ");
                String namaKonser = input.readLine();
                listkp.get(index-1).setNamaKonser(namaKonser);

                System.out.print("Masukkan Alamat      : ");
                String alamat = input.readLine();
            }
        }
    }
}

```

```

listkp.get(index-1).setAlamat(alamat);

System.out.print("Masukkan Tanggal    : ");
String tanggal = input.readLine();
listkp.get(index-1).setTanggal(tanggal);

System.out.print("Masukkan Group      : ");
String band = input.readLine();
listkp.get(index-1).setBand(band);

System.out.print("Masukkan Harga Tiket  : ");
int harga = Integer.parseInt(input.readLine());
listkp.get(index-1).setHarga(harga);

listkp.get(index-1).info(namaKonser);
System.out.println("-----");
} else
{
    System.out.println("Indeks tidak ditemukan!");
}
}
} else if(pil == 2){
    if (listrk.isEmpty()) {
        System.out.println("\n-----");
        System.out.println("- Belum ada data yang tersimpan! - ");
        System.out.println("-----");
    } else {
        for(int i = 0; i < listrk.size();i++){
            System.out.println("\nData ke-" + (i+1));
            listrk.get(i).tampil();
        }
        System.out.print("Masukkan indeks data rock yang ingin diubah : ");
        int index = Integer.parseInt(input.readLine());
        if(index <= listrk.size() || index > 0){
            System.out.println("\n---- Masukkan Data Baru ----");
            System.out.print("\nMasukkan Nama Konser  : ");
            String namaKonser = input.readLine();
            listrk.get(index-1).setNamaKonser(namaKonser);

            System.out.print("Masukkan Alamat      : ");
            String alamat = input.readLine();
            listrk.get(index-1).setAlamat(alamat);

            System.out.print("Masukkan Tanggal    : ");
            String tanggal = input.readLine();
            listrk.get(index-1).setTanggal(tanggal);

            System.out.print("Masukkan Band      : ");
            String band = input.readLine();
            listrk.get(index-1).setBand(band);

```

```

        System.out.print("Masukkan harga tiket  : ");
        int harga = Integer.parseInt(input.readLine());
        listrk.get(index-1).setHarga(harga);

        listrk.get(index-1).info(namaKonser);
        System.out.println( "-----");
    }else
    {
        System.out.println("Indeks tidak ditemukan!");
    }
}
}else{
    System.out.println("Input Salah");
}
}

public static void hapus() throws IOException{
    System.out.println("\n-----");
    System.out.println("--    Delete Pesanan    --");
    System.out.println("-----");
    System.out.println("|    1. Konser KPOP    |");
    System.out.println("|    2. Konser Rock    |");
    System.out.println("-----");
    System.out.print("Pilih Data: ");
    int pil = Integer.parseInt(input.readLine());
    if(pil == 1){
        if (listkp.isEmpty()) {
            System.out.println("\n-----");
            System.out.println("- Belum ada data yang tersimpan! - ");
            System.out.println("-----");
        } else {
            for(int i = 0; i < listkp.size();i++){
                System.out.println("\nData ke-" + (i+1));
                listkp.get(i).tampil();
            }
            System.out.print("Masukkan indeks data kpop yang ingin dihapus: ");
            int index = Integer.parseInt(input.readLine());
            if(index <= listkp.size() || index > 0)
            {
                listkp.remove(index-1);
                System.out.println("Data dengan indeks " + index + " berhasil dihapus");
            }
            else
            {
                System.out.println("Indeks tidak ditemukan!");
            }
        }
    }else if(pil == 2){
        if (listrk.isEmpty()) {

```

```

        System.out.println("\n-----");
        System.out.println("- Belum ada data yang tersimpan! - ");
        System.out.println("-----");
    } else {
        for(int i = 0; i < listrk.size();i++){
            System.out.println("\nData ke-" + (i+1));
            listrk.get(i).tampil();
        }
        System.out.print("Masukkan indeks data rock yang ingin dihapus : ");
        int index = Integer.parseInt(input.readLine());
        if(index <= listrk.size() || index > 0)
        {
            listrk.remove(index-1);
            System.out.println("Data dengan indeks " + index + " berhasil dihapus");
        }
        else
        {
            System.out.println("Indeks tidak ditemukan!");
        }
    }
} else{
    System.out.println("Input Salah");
}
}

```

```

public static void main(String[] args) throws IOException {
    boolean menu = true;
    while(menu == true){
        System.out.println("=====");
        System.out.println("=  Pemesanan Tiket Konser  =");
        System.out.println("=====");
        System.out.println("----- MENU -----");
        System.out.println("| 1. Tambah Pesanan  |");
        System.out.println("| 2. Baca Pesanan   |");
        System.out.println("| 3. Ubah Data Pesanan |");
        System.out.println("| 4. Hapus Pesanan   |");
        System.out.println("| 5. Exit           |");
        System.out.println("=====");
        System.out.print("Pilih Menu : ");
        int pilih = Integer.parseInt(input.readLine());
        switch(pilih){
            case 1:
                tambahdata();
                froze();
                break;
            case 2:
                tampil();
                froze();
                break;

```

```

        case 3:
            ubahdata();
            froze();
            break;
        case 4:
            hapus();
            froze();
            break;
        case 5:
            display();
            menu = false;
            break;
        default:
            System.out.println("Pilihan salah!");
            froze();
            break;
    }
}
}
}
}

```

Konser.java

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package com.mycompany.postest5;

// abstract class
public abstract class Konser {
    protected final String status = "Sudah Dibeli"; // final pada atribut
    private String namaKonser;
    private String alamat;
    private String tanggal;

    // Constructor
    public Konser(String namaKonser, String alamat, String tanggal) {
        this.namaKonser = namaKonser;
        this.alamat = alamat;
        this.tanggal = tanggal;
    }

    // abstract method
    public abstract void tampil();

    /**
     * @return the namaKonser
     */
}

```

```

public String getNamaKonser() {
    return namaKonser;
}

/**
 * @param namaKonser the namaKonser to set
 */
public void setNamaKonser(String namaKonser) {
    this.namaKonser = namaKonser;
}

/**
 * @return the alamat
 */
public String getAlamat() {
    return alamat;
}

/**
 * @param alamat the alamat to set
 */
public void setAlamat(String alamat) {
    this.alamat = alamat;
}

/**
 * @return the tanggal
 */
public String getTanggal() {
    return tanggal;
}

/**
 * @param tanggal the tanggal to set
 */
public void setTanggal(String tanggal) {
    this.tanggal = tanggal;
}

//Overloading
public void info(String namaKonser){
    System.out.println("\nData Kpop dengan Nama " + namaKonser + " berhasil
ditambahkan!");
}

//Overloading
public void info(int harga){
    System.out.println("\nData Rock dengan Harga" + harga + " berhasil diubah!");
}
}

```


KonserRock.java

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package com.mycompany.postest5;

/**
 *
 * @author Swift 3
 */
public final class KonserRock extends Konser{
    private String band;
    private int harga;

    public KonserRock(String namaKonser, String alamat, String tanggal, String band, int
harga) {
        super(namaKonser, alamat, tanggal);
        this.band = band;
        this.harga = harga;
    }

    /**
     * @return the band
     */
    public String getBand() {
        return band;
    }

    /**
     * @param band the band to set
     */
    public void setBand(String band) {
        this.band = band;
    }

    /**
     * @return the harga
     */
    public int getHarga() {
        return harga;
    }

    /**
     * @param harga the harga to set
     */
    public void setHarga(int harga) {
        this.harga = harga;
    }
}
```

```

    }

    @Override
    public void tampil() {
        System.out.println("Status      : " + status);
        System.out.println("Nama Konser   : " + getNamaKonser());
        System.out.println("Alamat      : " + getAlamat() );
        System.out.println("Tanggal     : " + getTanggal() );
        System.out.println("Band        : " + band);
        System.out.println("Harga       : " + harga);
    }
}

```

KonserKpop.java

```

/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change
 this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Classes/Class.java to edit this template
 */
package com.mycompany.postest5;

/**
 *
 * @author Swift 3
 */
public final class KonserKpop extends Konser{
    private String band;
    private int harga;

    public KonserKpop(String namaKonser, String alamat, String tanggal, String band, int
harga) {
        super(namaKonser, alamat, tanggal);
        this.band = band;
        this.harga = harga;
    }

    /**
     * @return the band
     */
    public String getBand() {
        return band;
    }

    /**
     * @param band the band to set
     */
    public void setBand(String band) {
        this.band = band;
    }
}

```

```

/**
 * @return the harga
 */
public int getHarga() {
    return harga;
}

/**
 * @param harga the harga to set
 */
public void setHarga(int harga) {
    this.harga = harga;
}

@Override
public void tampil() {
    System.out.println("Status      : " + status);
    System.out.println("Nama Konser    : " + getNamaKonser());
    System.out.println("Alamat       : " + getAlamat() );
    System.out.println("Tanggal      : " + getTanggal() );
    System.out.println("Group        : " + band);
    System.out.println("Harga        : " + harga);
}
}

```