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Class : 1G – Business Information System
Lesson : Algorithm and Data Structure

Material : Quiz 1

Github Link : https://github.com/azariacindy/algorithm-ds

MSC adalah sebuah perusahaan rekaman music yang menghasilkan sejumlah album music dari beberapa penyayi ternama. Setiap album mempunyai informasi mengenai judul album, nama penyanyi, jumlah keeping album yang terjual, dan harga satuan dari album tersebut.

## CODE:

kuis1\_Cindy > J album06.java > ...

```
📍 Click here to ask Blackbox to help you code faster 📗
          package kuis1_Cindy;
          public class album06 {
              public String judul, penyanyi;
              public int jumlah, harga;
              public album06(String judul, String penyanyi, int jumlah, int harga) {
                   this.judul = judul;
                   this.penyanyi = penyanyi;
                   this.jumlah = jumlah;
                   this.harga = harga;
              public void printAlbum06() {
                   System.out.println("Album Title : " + judul);
                   System.out.println("Singer : " + penyanyi);
                                                          : " + jumlah);
                   System.out.println("Quantity
                   System.out.println("Price
                                                          : Rp." + harga);
              public int hitungPenjualan06() {
                   return jumlah * harga;
              public static album06 cariAlbumKurangPopuler06(album06[] albums) {
                   album06 kurangPopuler = albums[0];
                   for (int i = 1; i < albums.length; i++) {</pre>
                        if (albums[i].hitungPenjualan06() < kurangPopuler.hitungPenjualan06()) {</pre>
                            kurangPopuler = albums[i];
                   return kurangPopuler;
kuis1_Cindy > J album06.java > ...
       public class album06 {
           public static void daftarAlbum06(album06[] albums) {
                  for (int j = 0; j < albums.length - i - 1; <math>j++) {
                        loop dalam: j adalah indeks elemen yang dibandingkan dengan elemen berikutnya
                      if (albums[j].harga < albums[j + 1].harga) {</pre>
                         // membandingkan harga dua elemen berturut-turut
// jika harga elemen pertama lebih kecil dari harga elemen berikutnya,
                          // maka lakukan pertukaran (swap) elemen tersebut.
                         album06 temp = albums[j];
                         albums[j] = albums[j + 1];
                         albums[j + 1] = temp;
              System.out.println(x:"\nDaftar Album (urut berdasarkan harga secara descending):");
               for (album06 album : albums) {
                  album.printAlbum06();
                  System.out.println("Total Sales: Rp." + album.hitungPenjualan06());
                  System.out.println(x:"-----
```

```
kuis1_Cindy > J albumMain06.java > ...
         🥊 Click here to ask Blackbox to help you code faster |
        package kuis1_Cindy;
        import java.util.Scanner;

y public class albumMain06 {
            public static void main(String[] args) {
                 Scanner sc = new Scanner(System.in);
                 album06[] albumArray = new album06[5];
                 for (int i = 0; i < 5; i++) {
                     System.out.println("\nEnter details for album " + (i + 1));
                     System.out.print(s:"Album Title: ");
                     String judul = sc.nextLine();
                     System.out.print(s:"Singer: ");
                     String penyanyi = sc.nextLine();
                     System.out.print(s:"Quantity: ");
                     int jumlah = sc.nextInt();
                     System.out.print(s:"Price: ");
                     int harga = sc.nextInt();
                     albumArray[i] = new album06(judul, penyanyi, jumlah, harga);
                     sc.nextLine();
                 for (int i = 0; i < 5; i++) {
                     System.out.println("\nDetails for album " + (i + 1));
                     albumArray[i].printAlbum06();
```

## **OUTPUT:**

Total Sales: Rp.540000

Details for album 1 Enter details for album 1 Album Title : Dress Album Title: Dress Singer: Taylor Swift Singer: Taylor Swift Quantity : 2 Quantity: 2 Price : Rp.90000 Price: 90000 Details for album 2 Enter details for album 2 Album Title : December Album Title: December Singer : Taylor Swift Singer: Taylor Swift Quantity : 6 Quantity: 6 Price : Rp.80000 Price: 80000 Details for album 3 Enter details for album 3 Album Title : Insane Album Title: Insane Singer : DPR Ian Singer: DPR Ian Quantity : 9 Quantity: 9 Price : Rp.60000 Price: 60000 Details for album 4 Enter details for album 4 Album Title : No Blueberries Album Title: No Blueberries Singer : DPR Ian Singer: DPR Ian Quantity: 8 Quantity : 8 Price : Rp.100000 Price: 100000 Details for album 5 Enter details for album 5 Album Title : Orang ke-3 Album Title: Orang ke-3 Singer : Juicy Lucy Singer: Juicy Lucy Quantity : 8 Quantity: 8 Price : Rp.70000 Price: 70000 Daftar Album (urut berdasarkan harga secara descending): Album Title : No Blueberries Singer : DPR Ian Quantity : 8 Price : Rp.100000 Total Sales: Rp.800000 Album Title : Dress Singer: Taylor Swift Quantity : 2 Price : Rp.90000 Total Sales: Rp.180000 Album Title : December Singer : Taylor Swift Quantity : 6 Price : Rp.80000 Total Sales: Rp.480000 Total sales for album 1: Rp.180000 Total sales for album 2: Rp.480000 Album Title : Orang ke-3 Singer : Juicy Lucy Total sales for album 3: Rp.540000 Quantity : 8 Price : Rp.70000 Total sales for album 4: Rp.800000 Total Sales: Rp.560000 Total sales for album 5: Rp.560000 Album Title : Insane Album dengan penjualan terkecil (kurang populer): Singer : DPR Ian Album Title : Dress Quantity : 9 Singer : Taylor Swift Price : Rp.60000 Quantity : 2

Price : Rp.90000 Total Sales: Rp.180000