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**Kasus 2 – Restoran**

**Restaurant**

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| **Restaurant.java**  **public** **class** Restaurant {  **public** **static** **byte** *id*=0;  Food[] menu = **new** Food[10];  **public** Restaurant() {    }    **public** **void** tambahMenuMakanan(String nama, **double** harga, **int** stok) {  menu[*id*] = **new** Food(nama,harga,stok);  }    **public** **void** tampilMenuMakanan(){  **for**(**int** i =0; i<= *id*;i++){  **if**(menu[i].getstok() != 0){  System.***out***.println(menu[i].getnama() +"["+menu[i].getstok()+"]"+"\tRp. "+menu[i].getharga());  }  }  }    **public** **void** Pemesanan(String nama, **int** jumlah){  **int** id\_temp = -1;  **for**(**int** i = 0; i<= *id*;i++){  **if** (nama.compareTo(menu[i].getnama()) == 0){  id\_temp = i;  }  }  **if**(id\_temp == -1){  System.***out***.println("Nama Makanan tidak ditemukan!");  }  **else** **if** (menu[id\_temp].getstok() < jumlah){  System.***out***.println("Stok Makanan tidak tersedia sebanyak yang dipesan!");  }  **else** {  System.***out***.println("Pemesanan Berhasil!");  menu[id\_temp].setstok(menu[id\_temp].getstok()-jumlah);  }  }    **public** **double** calculateprice(String nama,**int** jumlah){  **double** price = 0;  **int** id\_temp = -1;  **for**(**int** i = 0; i<= *id*;i++){  **if** (nama.compareTo(menu[i].getnama()) == 0){  id\_temp = i;  }  }  **if**(id\_temp != -1){  price = menu[id\_temp].getharga()\*jumlah;  }  **return** price;  }    **public** **void** addstok(String nama,**int** jumlah){  **int** id\_temp = -1;  **for**(**int** i = 0; i<= *id*;i++){  **if** (nama.compareTo(menu[i].getnama()) == 0){  id\_temp = i;  }  }  **if**(id\_temp == -1){  System.***out***.println("Nama Makanan tidak ditemukan!");  }  **else**{  menu[id\_temp].setstok(menu[id\_temp].getstok()+jumlah);  System.***out***.println("Stok berhasil ditambahkan!");  }  }    **public** **static** **void** nextId(){  *id*++;  }  }  **class** Food{  **private** String nama\_makanan;  **private** **double** harga\_makanan;  **private** **int** stok;    **public** Food(String nama, **double** harga, **int** stok){  nama\_makanan = nama;  harga\_makanan = harga;  **this**.stok = stok;  }    **public** String getnama(){  **return** nama\_makanan;  }  **public** **double** getharga(){  **return** harga\_makanan;  }  **public** **int** getstok(){  **return** stok;  }  **public** **void** setnama(String nama){  nama\_makanan = nama;  }  **public** **void** setharga(**double** harga){  harga\_makanan = harga;  }  **public** **void** setstok(**int** stok){  **this**.stok = stok;  }  } |

**RestaurantMain**

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| **RestaurantMain.java**  **import** java.util.\*;  **public** **class** RestaurantMain {  **public** **static** **void** main(String[] args) {  Restaurant menu = **new** Restaurant();  menu.tambahMenuMakanan("Spagheti", 35\_000, 20);  Restaurant.*nextId*();  menu.tambahMenuMakanan("Hamburger", 25\_000, 20);  Restaurant.*nextId*();  menu.tambahMenuMakanan("Pizza", 55\_000, 0);  Restaurant.*nextId*();  menu.tambahMenuMakanan("Steak", 45\_000, 20);  System.***out***.println("Restaurant menu:");  menu.tampilMenuMakanan();  Scanner in = **new** Scanner(System.***in***);  String makanan;  **int** bayar = 0;  **int** jumlah;  **int** choice = 1;  **while**(**true**)  {  System.***out***.println("Silahkan Pilih Menu Makanan!");  System.***out***.print("Nama Makanan: ");  makanan = in.next();  System.***out***.print("Kuantitas: ");  jumlah = in.nextInt();  menu.Pemesanan(makanan, jumlah);  bayar += menu.calculateprice(makanan, jumlah);  System.***out***.println("Apakah Ingin Memesan lagi?");  System.***out***.println("[1] Ya");  System.***out***.println("[2] Tidak");  choice = in.nextInt();  **if**(choice == 2){  **break**;  }  }  System.***out***.println("Total Harga untuk bayar pesanan: Rp" + bayar);  bayar = 0;  **while**(**true**){  System.***out***.println("Tambah Stok Makanan:");  System.***out***.print("Nama Makanan: ");  makanan = in.next();  System.***out***.print("Jumlah: ");  jumlah = in.nextInt();  menu.addstok(makanan, jumlah);  bayar += menu.calculateprice(makanan, jumlah);  System.***out***.println("Pesan lagi?");  System.***out***.println("[1] Ya");  System.***out***.println("[2] Tidak");  choice = in.nextInt();  **if**(choice == 2){  **break**;  }  }  System.***out***.println("Total Harga untuk menambah stok: Rp" + bayar);  System.***out***.println("Informasi Stok Setelah Pemesanan");  menu.tampilMenuMakanan();  in.close();  }  } |