Java基础练习3

1. 建立一个实体类Student类，属性：姓名，年龄，成绩，班级

建立一个list1，包含 “张三，18岁，80分，1班”，“李四，19岁，100分，1班”，“王五，17岁，59分，1班”。

建立一个list2，包含 “赵六，18岁，85分，2班”，“刘七，19岁，93分，2班”，“孙八，17岁，55分，2班”。

*/\*\*  
 \* Student实体类  
 \*/*

**public class** Student {  
 **private** String **name**;  
 **private int age**;  
 **private double grade**;  
 **private** String **classs**;  
  
 **public** String getName() {  
 **return name**;  
 }  
  
 **public void** setName(String name) {  
 **this**.**name** = name;  
 }  
  
 **public int** getAge() {  
 **return age**;  
 }  
  
 **public void** setAge(**int** age) {  
 **this**.**age** = age;  
 }  
  
 **public double** getGrade() {  
 **return grade**;  
 }  
  
 **public void** setGrade(**double** grade) {  
 **this**.**grade** = grade;  
 }  
  
 **public** String getClasss() {  
 **return classs**;  
 }  
  
 **public void** setClasss(String classs) {  
 **this**.**classs** = classs;  
 }  
 @Override  
 **public** String toString() {  
 **return "Student{"** +  
 **"name='"** + **name** + **'\''** +  
 **", age="** + **age** +  
 **", grade="** + **grade** +  
 **", classs='"** + **classs** + **'\''** +  
 **'}'**;  
 }  
}

1. 整合两个list学生信息成一个新的list
2. 按照分数给出学生信息排名
3. 输出不及格的学生信息
4. 查找张三的信息
5. 从list剔除年龄大于18岁的学生信息

**import** java.util.ArrayList;  
**import** java.util.List;  
  
**public class** StudentList {  
 **public static void** main(String[] args) {  
 StudentList st = **new** StudentList();  
 st.twoList(st.List1(),st.List2());  
 st.fail(st.List1(),st.List2());  
 st.seek(st.List1(),st.List2());  
 st.delete(st.List1(),st.List2());  
  
 }  
  
 */\*\*  
 \* 学生表一  
 \** ***@return*** *\*/* **public** List<Student> List1(){  
 List<Student> list1 = **new** ArrayList<>();  
 Student student01 = **new** Student(**"张三"**, 18, 80, **"1班"**);  
 Student student02 = **new** Student(**"李四"**, 19, 100, **"1班"**);  
 Student student03 = **new** Student(**"王五"**, 17, 59, **"1班"**);  
 list1.add(student01);  
 list1.add(student02);  
 list1.add(student03);  
 **return** list1;  
 }  
  
 */\*\*  
 \* 学生表二  
 \** ***@return*** *\*/* **public** List<Student> List2(){  
 List<Student> list2 = **new** ArrayList<>();  
 Student student04 = **new** Student(**"赵六"**, 18, 85, **"2班"**);  
 Student student05 = **new** Student(**"刘七"**, 19, 93, **"2班"**);  
 Student student06 = **new** Student(**"孙八"**, 17, 55, **"2班"**);  
 list2.add(student04);  
 list2.add(student05);  
 list2.add(student06);  
 **return** list2;  
 }  
  
 */\*\*  
 \* 整合两个学生信息表  
 \** ***@param list1*** *\** ***@param list2*** *\** ***@return*** *\*/* **public void** twoList(List<Student> list1,List<Student> list2){  
 System.***out***.println(**"整合两个学生信息表:"**);  
 List<Student> one = list1;  
 List<Student> two = list2;  
 one.addAll(two);  
 **for** (Student s : one){  
 System.***out***.println(s);  
 }  
 System.***out***.println(**"-----------------------------"**);  
 }  
  
 */\*\*  
 \* 输出不及格的学生信息  
 \** ***@param list1*** *\** ***@param list2*** *\*/* **public void** fail(List<Student> list1,List<Student> list2){  
 System.***out***.println(**"不及格的学生:"**);  
 list1.addAll(list2);  
 **for** (**int** i =0;i<list1.size();i++){  
 **if**(list1.get(i).getGrade() <60){  
 System.***out***.println(list1.get(i).toString());  
 }  
 }  
 System.***out***.println(**"-----------------------------"**);  
 }  
  
 */\*\*  
 \* 查找张三的信息  
 \** ***@param list1*** *\** ***@param list2*** *\*/* **public void** seek(List<Student> list1,List<Student> list2){  
 System.***out***.println(**"查找张三的信息:"**);  
 list1.addAll(list2);  
 **for** (**int** i =0;i<list1.size();i++){  
 **if**(**"张三"**.equals(list1.get(i).getName())){  
 System.***out***.println(list1.get(i).toString());  
 }  
 }  
 System.***out***.println(**"-----------------------------"**);  
 }  
  
 */\*\*  
 \* 剔除年龄大于18的学生信息  
 \** ***@param list1*** *\** ***@param list2*** *\*/* **public void** delete(List<Student> list1,List<Student> list2){  
 System.***out***.println(**"剔除年龄大于18岁的学生信息:"**);  
 list1.addAll(list2);  
 **for** (**int** i =0;i<list1.size();i++){  
 **if** (list1.get(i).getAge()>18){  
 list1.remove(i);  
 }  
 }  
 **for** (Student s : list1){  
 System.***out***.println(s);  
 }  
 }  
  
 */\*\*  
 \* 按照分数给出学生信息排名  
 \** ***@param list1*** *\** ***@param list2*** *\*/* **public void** ranking(List<Student> list1,List<Student> list2){  
 list1.addAll(list2);  
 Student temp;  
 **for** (**int** i=0;i<list1.size();i++){  
 **for** (**int** j = 0;j < list1.size() - i -1;j++){  
 **if** (list1.get(j).getGrade() > list1.get(j + 1).getGrade()){  
*// temp = list1.get(j);  
// list1.get(j) = list1.get(j + 1);  
// list1.get(j + 1) = temp;  
// list1.sort();* }  
 }  
 }  
 **for** (Student s : list1){  
 System.***out***.println(s);  
 }  
 }  
}



1. 使用Map 完成练习1的习题。
2. 仿照手机淘宝，设计订单和商品的实体类。

**import** java.util.List;  
**import** java.util.Map;  
*/\*\*  
 \* 商品实体类  
 \*/***public class** Goods {  
 */\*\*  
 \* 商品描述  
 \*/* **private** String **goodsDescription**;  
  
 */\*\*  
 \* 商品月销量  
 \*/* **private int monthSales**;  
  
 */\*\*  
 \* 商品发货地  
 \*/* **private int address**;  
  
 */\*\*  
 \* 商品所在店铺名称  
 \*/* **private int shopName**;  
  
 */\*\*  
 \* 商品详情  
 \*/* **private** List<String> **goodsDetails**;  
  
 */\*\*  
 \* 商品参数  
 \*/* **private** Map<String,String> **goodsParameter**;  
  
 **public** String getGoodsDescription() {  
 **return goodsDescription**;  
 }  
  
 **public void** setGoodsDescription(String goodsDescription) {  
 **this**.**goodsDescription** = goodsDescription;  
 }  
  
 **public int** getMonthSales() {  
 **return monthSales**;  
 }  
  
 **public void** setMonthSales(**int** monthSales) {  
 **this**.**monthSales** = monthSales;  
 }  
  
 **public int** getAddress() {  
 **return address**;  
 }  
  
 **public void** setAddress(**int** address) {  
 **this**.**address** = address;  
 }  
  
 **public int** getShopName() {  
 **return shopName**;  
 }  
  
 **public void** setShopName(**int** shopName) {  
 **this**.**shopName** = shopName;  
 }  
  
 **public** List<String> getGoodsDetails() {  
 **return goodsDetails**;  
 }  
  
 **public void** setGoodsDetails(List<String> goodsDetails) {  
 **this**.**goodsDetails** = goodsDetails;  
 }  
  
 **public** Map<String, String> getGoodsParameter() {  
 **return goodsParameter**;  
 }  
  
 **public void** setGoodsParameter(Map<String, String> goodsParameter) {  
 **this**.**goodsParameter** = goodsParameter;  
 }  
}

*/\*\*  
 \* 订单实体类  
 \*/***public class** Order {  
 */\*\*  
 \* 订单编号  
 \*/* **private** String **orderNumber**;  
  
 */\*\*  
 \* 商品总价  
 \*/* **private double totalPrice**;  
  
 */\*\*  
 \*运费  
 \*/* **private double freight**;  
  
 */\*\*  
 \*运费险  
 \*/* **private double freightInsurance**;  
  
 */\*\*  
 \*订单总价  
 \*/* **private double orderTotalPrice**;  
  
 */\*\*  
 \*优惠  
 \*/* **private double discount**;  
  
 */\*\*  
 \*实付款  
 \*/* **private double trialPayment**;  
  
 */\*\*  
 \*创建时间  
 \*/* **private** String **creationTime**;  
  
 */\*\*  
 \*付款时间  
 \*/* **private** String **payTime**;  
  
 */\*\*  
 \*发货时间  
 \*/* **private** String **deliveryTime**;  
  
 */\*\*  
 \*成交时间  
 \*/* **private** String **closingTime**;  
  
 */\*\*  
 \*商品名  
 \*/* **private** String **goodsName**;  
  
 */\*\*  
 \*商品类型  
 \*/* **private** String **goodsType**;  
  
 */\*\*  
 \*商品所属商店  
 \*/* **private** String **goodsOfShop**;  
  
 */\*\*  
 \*物流信息  
 \*/* **private** String **logistics**;  
  
 */\*\*  
 \* 收货地址  
 \*/* **private** String **address**;  
  
 **public** String getOrderNumber() {  
 **return orderNumber**;  
 }  
  
 **public void** setOrderNumber(String orderNumber) {  
 **this**.**orderNumber** = orderNumber;  
 }  
  
 **public double** getTotalPrice() {  
 **return totalPrice**;  
 }  
  
 **public void** setTotalPrice(**double** totalPrice) {  
 **this**.**totalPrice** = totalPrice;  
 }  
  
 **public double** getFreight() {  
 **return freight**;  
 }  
  
 **public void** setFreight(**double** freight) {  
 **this**.**freight** = freight;  
 }  
  
 **public double** getFreightInsurance() {  
 **return freightInsurance**;  
 }  
  
 **public void** setFreightInsurance(**double** freightInsurance) {  
 **this**.**freightInsurance** = freightInsurance;  
 }  
  
 **public double** getOrderTotalPrice() {  
 **return orderTotalPrice**;  
 }  
  
 **public void** setOrderTotalPrice(**double** orderTotalPrice) {  
 **this**.**orderTotalPrice** = orderTotalPrice;  
 }  
  
 **public double** getDiscount() {  
 **return discount**;  
 }  
  
 **public void** setDiscount(**double** discount) {  
 **this**.**discount** = discount;  
 }  
  
 **public double** getTrialPayment() {  
 **return trialPayment**;  
 }  
  
 **public void** setTrialPayment(**double** trialPayment) {  
 **this**.**trialPayment** = trialPayment;  
 }  
  
 **public** String getCreationTime() {  
 **return creationTime**;  
 }  
  
 **public void** setCreationTime(String creationTime) {  
 **this**.**creationTime** = creationTime;  
 }  
  
 **public** String getPayTime() {  
 **return payTime**;  
 }  
  
 **public void** setPayTime(String payTime) {  
 **this**.**payTime** = payTime;  
 }  
  
 **public** String getDeliveryTime() {  
 **return deliveryTime**;  
 }  
  
 **public void** setDeliveryTime(String deliveryTime) {  
 **this**.**deliveryTime** = deliveryTime;  
 }  
  
 **public** String getClosingTime() {  
 **return closingTime**;  
 }  
  
 **public void** setClosingTime(String closingTime) {  
 **this**.**closingTime** = closingTime;  
 }  
  
 **public** String getGoodsName() {  
 **return goodsName**;  
 }  
  
 **public void** setGoodsName(String goodsName) {  
 **this**.**goodsName** = goodsName;  
 }  
  
 **public** String getGoodsType() {  
 **return goodsType**;  
 }  
  
 **public void** setGoodsType(String goodsType) {  
 **this**.**goodsType** = goodsType;  
 }  
  
 **public** String getGoodsOfShop() {  
 **return goodsOfShop**;  
 }  
  
 **public void** setGoodsOfShop(String goodsOfShop) {  
 **this**.**goodsOfShop** = goodsOfShop;  
 }  
  
 **public** String getLogistics() {  
 **return logistics**;  
 }  
  
 **public void** setLogistics(String logistics) {  
 **this**.**logistics** = logistics;  
 }  
  
 **public** String getAddress() {  
 **return address**;  
 }  
  
 **public void** setAddress(String address) {  
 **this**.**address** = address;  
 }  
}