package 第十二次作业;

import java.io.File;

import java.io.FileNotFoundException;

import java.io.FileOutputStream;

import java.io.IOException;

import java.io.OutputStreamWriter;

import java.util.HashSet;

import java.util.Iterator;

import java.util.Set;

import java.util.Scanner;

public class HashSetDemo {

public static void main(String[] args) {

Scanner input = new Scanner(System.in);

Set<Student> students = new HashSet<Student>();

String name, id;

int age;

while (true) {

name = input.next();

if (name.equalsIgnoreCase("exit")) {

break;

}

id = input.next();

age = input.nextInt();

students.add(new Student(name, id, age));

}

File file = new File("Student.txt");

try {

OutputStreamWriter output = new OutputStreamWriter(new FileOutputStream(file), "utf-8");

Iterator<Student> it = students.iterator();

while (it.hasNext()) {

Student temp = (Student) it.next();

output.append(temp.getId() + " " + temp.getName() + " " + temp.getAge() + "\n");

}

output.flush();

// op.close();

} catch (FileNotFoundException e) {

e.printStackTrace();

} catch (IOException e) {

e.printStackTrace();

}

}

}

**package** 第十二次作业;

**public** **class** Student {

**private** String id;

**private** String name;

**private** **int** age;

**public** Student() {

}

**public** Student(String id, String name, **int** age) {

**this**.id = id;

**this**.name = name;

**this**.age = age;

}

**public** **void** setId(String id) {

**this**.id = id;

}

**public** String getId() {

**return** **this**.id;

}

**public** **void** setName(String name) {

**this**.name = name;

}

**public** String getName() {

**return** **this**.name;

}

**public** **void** setAge(**int** age) {

**this**.age = age;

}

**public** **int** getAge() {

**return** **this**.age;

}

**public** **int** compareTo(Object o) {

**if** (!(o **instanceof** Student))

**throw** **new** RuntimeException("不是Student对象");

Student p = (Student) o;

**if** (**this**.age < p.age) {

**return** 1;

} **else** **if** (**this**.age == p.age) {

**return** 0;

} **else** {

**return** -1;

}

}

}

**import java.util.ArrayList;**

**import java.util.HashMap;**

**import java.util.Iterator;**

**import java.util.Map;**

**public class exercise{**

**public static void main(String[] args) {**

**ArrayList<Book>books=new ArrayList<Book>();**

**Book bk1=new Book();**

**bk1.set\_number(1);**

**bk1.set\_name("gbh");**

**bk1.set\_price(10.5);**

**bk1.set\_publish("mj");**

**Book bk2=new Book();**

**bk2.set\_number(2);**

**bk2.set\_name("wxy");**

**bk2.set\_price(9.9);**

**bk2.set\_publish("mj");**

**books.add(bk1);**

**books.add(0,bk2);**

**for(Book book:books){**

**System.out.print(book.get\_number()+" ");**

**System.out.print(book.get\_name()+" ");**

**System.out.print(book.get\_price()+" ");**

**System.out.println(book.get\_publish());**

**}**

**HashMap<Integer,Book>bk=new HashMap<Integer, Book>();//建立哈希表**

**bk.put(1,bk1);**

**bk.put(0,bk2);**

**Iterator it=bk.entrySet().iterator();**

**while(it.hasNext()){**

**Map.Entry entry=(Map.Entry)it.next();**

**System.out.println(((Book)entry.getValue()).get\_name());**

**}**

**}**

**}**

**class Book{**

**private int number;**

**private String name;**

**private double price;**

**private String publish;**

**public int get\_number(){**

**return this.number;**

**}**

**public void set\_number(int number){**

**this.number=number;**

**}**

**public String get\_name(){**

**return this.name;**

**}**

**public void set\_name(String name){**

**this.name=name;**

**}**

**public double get\_price(){**

**return this.price;**

**}**

**public void set\_price(double price){**

**this.price=price;**

**}**

**public String get\_publish(){**

**return this.publish;**

**}**

**public void set\_publish(String publish){**

**this.publish=publish;**

**}**

**}**