```
package zzzzzzz;
import java.io.*;
//作者: 凯鲁嘎吉 - 博客园
//http://www.cnblogs.com/kailugaji/
public class Text
        public static void main(String[] args) throws MyException, IOException {
               Login 1=new Login();
               1. login();
class Student{
       private String stunumber;
       private String name;
       private String age;
       private String sex;
       private String score;
        public void set stunumber(String stu) {
               stunumber=stu;
       public String get_stunumber() {
               return stunumber;
       void set name(String na) {
               name=na;
       String get name() {
               return name:
       void set age(String agee) {
               age=agee;
       String get age() {
               return age;
        void set sex(String sexx){
               sex=sexx:
       String get sex() {
               return sex;
        void set score(String scoree) {
               score=scoree;
        String get_score() {
               return score;
class StudentManager{
        int n=0;
       Student ss[]=new Student[50];
       //遍历学生信息
       void showStudent() {
                       System.out.println("学号: "+ss[i].get stunumber()+"姓名: "+ss[i].get name()+"年龄: "+ss[i].get age()+"性别: "+ss[i].get sex()+"分数: "+ss[i].get score()+"\t\n");
        //判断学号是否已经存在
    boolean panduan(String st)
       boolean flag=true;
       for (int i=0; i < n; i++)
```

```
if(ss[i].get stunumber().equals(st))
          flag= false;
          flag= true;
  return flag;
//添加学生信息
  void addStudent (String stunumber, String name, String age, String b, String score) {
          ss[n]=new Student():
          ss[n].set stunumber(stunumber);
          ss[n].set name(name);
          ss[n].set age(age);
          ss[n].set sex(b);
          ss[n].set score(score);
          n++;
  //删除学生信息
  void deleteStudent(String stunumber) throws MvException{
          for (int i=0; i \le n; i++) {
                  if(ss[i].get stunumber().equals(stunumber)) {
                          System. out. println("学号为: "+stunumber+"的学生已被删除!");
                          if(n==1){
                                  System.out.println("数组为空"):
                                  ss[0]=new Student();
                                  else {
                                          for (int j=i; j \le n; j++) {
                                                 ss[j]=ss[j+1];
                                          n--;
                          else{
                                  throw new MvException("该学生不存在!"):
  //修改学生信息
  void updateStudent(String stul, String name, String age, String sex, String score) throws MyException{
          for (int i=0; i <= n; i++) {
                  if(ss[i].get stunumber().equals(stu1)){
                          ss[i]=new Student();
                          ss[i].set stunumber(stul):
                          ss[i].set_name(name);
                          ss[i].set age(age);
                          ss[i].set_sex(sex);
                          ss[i].set score(score);
                  else
                          throw new MyException("没有找到该学生!");
  //查询学生信息
  void selectStudent(String number) throws MyException{
          for (int i=0; i <= n; i++) {
                  if(ss[i].get stunumber().equals(number)) {
                          System.out.println("学号: "+ss[i].get stunumber()+"姓名: "+ss[i].get name()+"年龄: "+ss[i].get age()+"性别: "+ss[i].get sex()+"分数: "+ss[i].get score()+"\t\n");
                  else
                          throw new MyException ("没有找到该学生!");
```

```
//统计不及格的人数
       void tongji() {
              int s=0:
              for (int i=0:i \le n:i++) {
                     int a=Integer.parseInt(ss[i].get score());
                     if (a<=60) {
                             s=s+1:
                             System.out.println("学号: "+ss[i].get stunumber()+"姓名: "+ss[i].get name()+"年龄: "+ss[i].get age()+"性别: "+ss[i].get sex()+"分数: "+ss[i].get score()+"\t\n");
              System. out. println("不及格的人数为:"+s+"人"):
       //输入界面
       void showface() {
              System.out.println("石家庄铁道大学学生信息管理系统"):
              System. out. println("1. 遍历输出学生信息");
              System. out. println("2. 新学生信息录入");
              System. out. println("3. 删除学生信息");
              System. out. println("4. 修改学生信息");
              System. out. println("5. 查询学生信息");
              System. out. println("6. 学生信息统计"):
              System. out. println("7退出.");
class Login {
       User users=new User("001", "123456");//用户名,密码
       //登录
       void login() throws MyException, IOException{
              BufferedReader in=new BufferedReader(new InputStreamReader(System.in)):
              DataOutputStream out=new DataOutputStream(new BufferedOutputStream(new FileOutputStream("Student.txt".true))):
              for (int i=1; i \le 3; i++) {
              System.out.println("请输入用户ID: "):
              String id=in.readLine();
              System. out. println("请输入密码:");
              String pass=in.readLine();
                      if ((users. uername. equals (id)) && (users. passage. equals (pass))) {
                             StudentManager sm=new StudentManager();
                             while(true) {
                             sm. showface():
                             System. out. println("请选择:");
                             String choose=in.readLine():
                             if (choose. startsWith ("1")) {
                                    sm. showStudent():
                             else if (choose. startsWith ("2")) {
                                    System. out. print("请输入学号:");
                                    String stu=in.readLine();
                                    System.out.print("请输入姓名:");
                                    String name=in.readLine();
                                    System.out.print("请输入年龄:");
                                    String age=in.readLine();
                                    System. out. println("请输入性别(true男, false女):");
                                    String sex=in.readLine();
                                    System.out.print("请输入分数:");
                                    String score=in.readLine();
                                    if (sm. panduan (stu)) {
                                    sm. addStudent(stu, name, age, sex, score);
                                    System. out. println("创建成功!");
```

```
out.writeUTF("|学号: "+stu+"|姓名: "+name+"|年龄: "+age+"|性别: "+sex+"|分数: "+score+"|\t\t\n\n"):
                             else
                                     throw new MyException("该学生已存在,请勿重复添加");
                      else if (choose.startsWith("3")) {
                             System. out. println("请输入学号:");
                             String stu=in.readLine();
                             if(!(sm. panduan(stu))){
                                     sm. deleteStudent(stu):
                             else
                                     throw new MyException("该学号不存在!");
                      else if (choose. startsWith ("4")) {
                             System. out. println("请输入学号:");
                             String stu=in.readLine();
                                     System. out. println("请输入姓名:");
                                     String name=in.readLine();
                                     System. out. println("请输入年龄:");
                                     String age=in.readLine();
                                     System.out.print("请输入性别(true男, false女):");
                                     String sex=in.readLine();
                                     System. out. print ("请输入分数:");
                                     String score=in.readLine():
                                     if(!(sm. panduan(stu))){
                                     sm.updateStudent(stu, name, age, sex, score);
                                     out.writeUTF("|学号: "+stu+"|姓名: "+name+"|年龄: "+age+"|性别: "+sex+"|分数: "+score+"|\t\n");
                             else
                                     throw new MyException("该学号不存在!");
                      else if (choose. startsWith ("5")) {
                             System. out. println("请输入学号:");
                             String stu=in.readLine();
                             if(!(sm. panduan(stu))){
                                     sm. selectStudent(stu);
                             else
                                     throw new MyException("该学号不存在!");
                      else if (choose, startsWith("6")) {
                             sm. tongji();
                      else if (choose, startsWith("7")) {
                                 in.close();
                                     out.close():
                             System. exit(0);
                      else {
                              throw new MyException("选择错误,请重新选择");
              else
                      System. out. println("用户ID或密码错误,请重新输入");
       throw new MvException("该卡已锁定!"):
String uername;
```

class User{