**Here is lab 11 solution**

public class Student {

 private int id;

 private String name;

 private double score;

 public Student (int id, String name, double score)

 {

 this.id=id;

 this.name=name;

 this.score=score;

 }

 public int getId() {

 return id;

 }

 public String getName() {

 return name;

 }

 public double getScore() {

 return score;

 }

 public void display()

 {

 System.out.println(getId()+

 ", "+getName()+

 ", "+getScore());

 }

}

class CourseManager5{

 private Student [] students;

 private int nStudents ;

 public static int MAX\_SIZE=100;

 public CourseManager5() {

 students = new Student [100];

 nStudents=0;

 }

 public void addStudent(Student newStudent) {

 if (nStudents < 100)

 {

 students[nStudents]=newStudent;

 nStudents++;

 }

 else

 System.out.println("ERROR: COURSE IS FULL");

 /\* 2- add the new student to the list

 Increment the current number of students\*/

 }

 public void displayStudent(int i) {

// System.out.println(students[i].getId()+

// ", "+students[i].getName()+

// ", "+students[i].getScore());

 students[i].display();

 }

 public int getNStudents() {

 return nStudents;

 }

 public int findStudentByName (String name){

 for (int i = 0 ; i < nStudents; i++)

 {

 if (students[i].getName().equalsIgnoreCase(name))

 return i;

 }

 return -1;

 }

 public double findStudentscoreByName (String name){

 for (int i = 0 ; i < nStudents; i++)

 {

 if (students[i].getName().equalsIgnoreCase(name))

 return students[i].getScore();

 }

 return -1;

 }

 public Student findStudentObjByName (String name){

 for (int i = 0 ; i < nStudents; i++)

 {

 if (students[i].getName().equalsIgnoreCase(name))

 return students[i];

 }

 return null;

 }

 public boolean deletestudentbyindex(int i)

 {

 if(i>=nStudents)

 return false;

 for(int j=i;j<nStudents-1;j++)

 students[j]=students[j+1];

// students[i]=students[nStudents-1];

// students[nStudents-1]=null;

 nStudents--;

 return true;

 }

}

class CourseManager6{

 private Student [] students;

 private int nStudents ;

 public static int MAX\_SIZE=100;

 public CourseManager6() {

 students = new Student [100];

 nStudents=0;

 }

 public Student getarray(int i){

 return students[i];

 }

 public void addStudent(Student newStudent) {

 if (nStudents < 100)

 {

 if (findStudentByName(newStudent.getName())==-1)

 {

 students[nStudents]=newStudent;

 nStudents++;

 }

 else

 System.out.println("ERROR: STUDENT ALREADY ADDED");

 }

 else

 System.out.println("ERROR: COURSE IS FULL");

 /\* 2- add the new student to the list

 Increment the current number of students\*/

 }

 public void displayStudent(int i) {

 System.out.println(students[i].getId()+", "+students[i].getName()+", "+students[i].getScore());

 }

 public int getNStudents() {

 return nStudents;

 }

 public int findStudentByName (String name){

 for (int i = 0 ; i < nStudents; i++)

 {

 if (students[i].getName().equalsIgnoreCase(name))

 return i;

 }

 return -1;

 }

 public int findMaxScoreIndex ()

 {

 //double topscore=0;

 int max=0;

 /// s[0] =90 ; s[1] = 95 ; s[2]= 93 s[3] = 99 s[4]=95

 for (int i = 0 ; i < nStudents ; i++)

 {

 if (students[i].getScore()>students[max].getScore()){

 max=i;

 }

 }

 return max;

 }

 public double findAverageScore(){

 double sum = 0;

 for (int i = 0 ; i<nStudents;i++){

 sum+=students[i].getScore();

 }

 if (nStudents!=0)

 return (sum/nStudents);

 else return 0;

 }

}

import java.util.Scanner;

public class TestCourseManager5 {

 /\*\*

 \* @param args

 \*/

 public static void main(String[] args) {

 // TODO Auto-generated method stub

 Scanner read = new Scanner(System.in);

 CourseManager5 cm = new CourseManager5();

 int id ;

 String name;

 double score;

 for ( int i = 0 ; i<3 ; i++)

 {

 System.out.println("Please enter the ID, name, and score of student "+i+": ");

 id = read.nextInt();

 name=read.next();

 score=read.nextDouble();

 Student s = new Student (id,name,score);

 cm.addStudent(s);

 }

// Student res=cm.findStudentObjByName("ali");

// if(res!=null)

// {

// res.display();

// }

// else

// System.out.println("not found");

 if(cm.deletestudentbyindex(1))

 System.out.println("done");

 else

 System.out.println("not found");

 /\*

 CourseManager6 cm6 = new CourseManager6();

 int id ;

 String name;

 double score;

 for ( int i = 0 ; i<3 ; i++)

 {

 System.out.println("Please enter the ID, name, and score of student "+i+": ");

 id = read.nextInt();

 name=read.next();

 score=read.nextDouble();

 Student s = new Student (id,name,score);

 cm6.addStudent(s);

 }

 System.out.println("Students are: ");

 for ( int i = 0 ; i < cm6.getNStudents() ; i++)

 {

 cm6.displayStudent(i);

 // ssalsaleh ksu

 }

 int maxindex = cm6.findMaxScoreIndex();

 System.out.println("the name of the max student is :"+cm6.getarray(maxindex).getName());

 System.out.println("The Student with the maximum score is: ");

 cm6.displayStudent(cm6.findMaxScoreIndex());

 System.out.println("Average is: "+cm6.findAverageScore());

 \*/

 }

 public static int search(int t)

 {

 return 0;

 }

}