

```
import java.util.*;

public class Section {

    private int sectionid;

    public int getsectionid() {

        return sectionid;

    }

    public void setsectionid (int sectionid) {

        this. sectionid= sectionid;

    }

    public Section (int sectionid) {

        this. sectionid = sectionid;

    }

    public Section (Section S) {

        this. sectionid = p. sectionid;

    }

    public void display()

    {

        System.out.println("sectionid =" + sectionid );

    }

    public void read()

    {

        Scanner s=new Scanner(System.in);

        System.out.println("enter section id : ");

        this. sectionid =s.nextInt();

    }

}
```

```
public void addStudent(Student s)
```

```
{
```

```
    if(nb<std.length)
```

```
        std[nb++]=s;
```

```
}
```

```
public void addTeacher(Teacher t)
```

```
{
```

```
    if(nb<Teach.length)
```

```
        Teach[nb++]=t;
```

```
}
```

```
}
```

```
public class Course {

    private String CourseName;

    private int nb;

    private Section ArraySection [ ];

    public String getCourseName () {

        return CourseName;

    }

    public void setCourseName (String courseName) {

        CourseName = courseName;

    }


    public int getNb() {

        return nb;

    }

    public void setNb(int nb) {

        this.nb = nb;

    }

    public Section[] getArraySection () {

        return ArraySection;

    }

    public void setArraySection (Section[] arraySection) {

        ArraySection = arraySection;

    }

    public Course(String courseName,int size) {

        CourseName = courseName;
```

```
    this.nb = 0;

    ArraySection = new Section[size];

}
```

```
void addsection(Section s)
```

```
{

    if(nb<this.ArraySection.length)

    {

        this.ArraySection [nb++]=new Section(s);

    }

}
```

```
public void search(int id)
```

```
{

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

        if(this.ArraySection [i].getsectionid ( ) == id)

        {

            this.ArraySection [i].display();

            break;

        }

}
```

```
public void deletesection ( int id)
```

```
{

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

        if(this.ArraySection [i].getsectionid ()==id)

        {


```

```

        this.ArraySection [i]=this.ArraySection [- - nb];

        System.out.println("Done");

    }

}

public void DisplayAll ( )

{

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

        this.ArraySection [i].display();

}

}

```

```

public class Department {

    private String name;

    private int nb;

    private Course[] cour;

    Department (int size)

    {

        name="Computer Science";

        nb=0;

        cour=new Course[size];

    }

}

```

```
public void addCourse(Course c)
```

```
{
```

```
    if(nb<cour.length)
```

```
        cour[nb++]=c;
```

```
}
```

```
}
```

```
public class Student {
```

```
    private String StudentName;
```

```
    private int studentid;
```

```
    private int nb;
```

```
    private Student std [ ];
```

```
    public String getStudentName () {
```

```
        return StudentName;
```

```
    }
```

```
    public void setStudentName (String studentName) {
```

```
        StudentName = studentName;
```

```
    }
```

```
public int getStudentid() {  
  
    return studentid;  
  
}  
  
public void setStudentid(int studentid) {  
  
    this.studentid = studentid;  
  
}
```

```
public int getNb() {  
  
    return nb;  
  
}  
  
public void setNb(int nb) {  
  
    this.nb = nb;  
  
}
```

```
public Student[] getstd () {  
  
    return std;  
  
}
```

```
public void setstd (Student[] std) {  
  
    Student = std;  
  
}
```

```
public Student (String StudentName, int studentid, int size) {  
  
    this.studentid = studentid;
```

```
        StudentName = studentName;

        this.nb = 0;

        std = new Student[size];
    }

}
```

```
public class Teacher {

    private String TeacherName;

    private int Teacherid;


    private int nb;

    private Student Teach [ ];


    public String get TeacherName () {

        return TeacherName;

    }

    public void set TeacherName (String teacherName) {

        TeacherName = teacherName;

    }


    public int getTeacherid () {

        return Teacherid;

    }

}
```



```
}  
  
public void setTeacherid (int Teacherid) {  
  
    this. Teacherid = Teacherid;  
  
}
```

```
public int getNb() {  
  
    return nb;  
  
}  
  
public void setNb(int nb) {  
  
    this.nb = nb;  
  
}
```

```
public Teach[] getTeach () {  
  
    return Teach;  
  
}
```

```
public void setTeach (Teacher[] Teach) {  
  
    Teacher = Teach;  
  
}
```

```
public Teacher (String TeacherName, int Teacherid, int size) {  
  
    TeacherName = TeacherName;  
  
    this. Teacherid = Teacherid;  
  
    this.nb = 0;
```

```
Teach = new Teach[size];
```

```
}
```

```
}
```