import java.util.\*;

class Student

{

    int id;

    String name;

    String dept;

    long mobileNo;

    String address;

    String email;

    int jyear;

    int pyear;

    String bloodgroup;

    int age;

    Student(int id, String name, String dept, long mobileNo, String address, String email, int jyear, int pyear, String bloodgrp, int age)

    {

        this.id=id;

        this.name=name;

        this.dept=dept;

        this.mobileNo=mobileNo;

        this.address=address;

        this.email=email;

        this.jyear=jyear;

        this.pyear=pyear;

        this.bloodgroup=bloodgroup;

        this.age=age;

    }

}

public class MyClass

{

    static ArrayList<Student> arr = new ArrayList<Student>();

    static Scanner sc = new Scanner(System.in);

    public static void addStudent()

    {

        System.out.println("Enter Student id : ");

        int id=sc.nextInt();

        System.out.println("Enter Student name : ");

        String name = sc.next();

        System.out.println("Enter Student dept : ");

        String dept = sc.next();

        System.out.println("Enter Student mobile number : ");

        long mobileNo=sc.nextLong();

        System.out.println("Enter Student address : ");

        String address=sc.next();

        System.out.println("Enter Student email id : ");

        String email=sc.next();

        System.out.println("Enter Student joining year : ");

        int jyear=sc.nextInt();

        System.out.println("Enter Student passing year : ");

        int pyear=sc.nextInt();

        System.out.println("Enter Student blood group : ");

        String bloodgroup=sc.next();

        System.out.println("Enter Student age : ");

        int age=sc.nextInt();

        Student k = new Student(id,name,dept,mobileNo,address,email,jyear,pyear,bloodgroup,age);

        arr.add(k);

        System.out.println("Data is sucessfully added");

    }

    public static void view1Student()

    {

        if(arr.size() == 0)

        System.out.println("No Student Data is Available");

        else

        {

            System.out.print("Enter the id of student : ");

            int ar1= sc.nextInt();

            int flag =0;

            for(int i=0;i<arr.size();i++)

            {

                if( arr.get(i).id ==  ar1)

                {

                    System.out.println("Student id : "+arr.get(i).id);

                    System.out.println("Student name : "+arr.get(i).name);

                    System.out.println("Student department : "+arr.get(i).dept);

                    System.out.println("Student mobile number : "+arr.get(i).mobileNo);

                    System.out.println("Student address : "+arr.get(i).address);

                    System.out.println("Student email id : "+arr.get(i).email);

                    System.out.println("Student joining year : "+arr.get(i).jyear);

                    System.out.println("Student passing year : "+arr.get(i).pyear);

                    System.out.println("Student blood group : "+arr.get(i).bloodgroup);

                    System.out.println("Student age : "+arr.get(i).age);

                    flag =1;

                }

            }

            if(flag== 0)

            System.out.print("Student Not Available\n");

        }

    }

    public static void viewAllStudents()

    {

        if(arr.size() == 0)

        System.out.println("No Student Data is Available");

        else

        {

            System.out.println("Displaying all Student details : ");

            for(int i=0;i<arr.size();i++)

            {

                System.out.println("Student -" +" "+ (i+1));

                System.out.print("Student id : ");

                System.out.println(arr.get(i).id);

                System.out.print("Student name : ");

                System.out.println(arr.get(i).name );

                System.out.print("Student dept : ");

                System.out.println(arr.get(i).dept);

                System.out.print("Student mobile number : ");

                System.out.println(arr.get(i).mobileNo);

                System.out.print("Student address : ");

                System.out.println(arr.get(i).address);

                System.out.print("Student email id : ");

                System.out.println(arr.get(i).email);

                System.out.print("Student joining year : ");

                System.out.println(arr.get(i).jyear);

                System.out.print("Student passing year : ");

                System.out.println(arr.get(i).pyear);

                System.out.print("Student blood group : ");

                System.out.println(arr.get(i).bloodgroup);

                System.out.print("Student age : ");

                System.out.println(arr.get(i).age);

                System.out.println();

            }

        }

    }

    public static void updateStudent()

    {

        if(arr.size() == 0)

        System.out.println("No Student Data is Available");

        else

        {

            System.out.print("Enter the id of student to update : ");

            int ar2=sc.nextInt();

            int flag=0;

            for(int i=0;i<arr.size();i++)

            {

                if(arr.get(i).id!=ar2)

                {

                    System.out.println("Student data not available");

                    flag=1;

                }

            }

            if(flag==0)

            {

                System.out.println("Enter dept name of Student to update :");

                String dep1=sc.next();

                for(int i=0;i<arr.size();i++)

                {

                    if(arr.get(i).id==ar2)

                    {

                        arr.get(i).dept=dep1;

                    }

                }

            }

        }

    }

    public static void deleteStudent()

    {

        if(arr.size() == 0)

        System.out.println("No Student Data is Available");

        else

        {

            System.out.print("Enter the id of student to delete : ");

            int ar3=sc.nextInt();

            int flag=0;

            for(int i=0;i<arr.size();i++)

            {

                if(arr.get(i).id!=ar3)

                {

                    System.out.println("Student data not available");

                    flag=1;

                }

            }

            if(flag==0)

            {

                for(int i=0;i<arr.size();i++)

                {

                    if(arr.get(i).id==ar3)

                    {

                        arr.remove(arr.get(i));

                    }

                }

            }

        }

    }

    public static void main(String args[])

    {

        System.out.println(" 1. Add Student Details\n 2. View Single Student Details\n 3. View All Student Details\n 4. Update Studente Details\n 5. Delete Student Details\n 6. exit");

        int n = sc.nextInt();

        while(n != 6)

        {

            if(n == 1)

            {

                addStudent();

            }

            if(n==2)

            {

                view1Student();

            }

            if(n == 3)

            {

                viewAllStudents();

            }

            if(n == 4)

            {

                updateStudent();

            }

            if(n==5)

            {

                deleteStudent();

            }

            System.out.println(" 1. Add Student Details\n 2. View Single Student Details\n 3. View All Student Details\n 4. Update Studente Details\n 5. Delete Student Details\n 6. exit");

            System.out.println("Enter your choice : ");

            n = sc.nextInt();

        }

        System.exit(0);

    }

}