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/*Date : 3/7/25

You are developing a student record management module for a college system. The module uses an
array to store student IDs. When a student drops out or graduates, their ID should be deleted from
the list. Implement a program that allows:

• Insertion of student IDs

• Display of all student IDs

• Deletion of a student ID (by value)

• Display updated list

Sample Input and Output:

Enter number of student IDs to add: 5

Enter student IDs: 101 102 103 104 105

Student List:

101 102 103 104 105

Enter student ID to delete: 103

Student List after deletion:

101 102 104 105

*/
import java.util.*;
class Student
{
    int[]student_list;
    int size;
    int pos;
}
public class july3ht
{
    static Scanner sc=new Scanner(System.in);
    static void insert (Student stu)
    {
        System.out.println("Enter the number of students in the student list");
        stu.size=sc.nextInt();
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        stu.student_list = new int[stu.size];

        System.out.println("Enter the student id");

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

        {

            stu.student_list[i]=sc.nextInt();


        }


    }


    static void delete(Student stu)

    {


        boolean found = false;

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

        {

            if (stu.student_list[i] == stu.pos)

            {


                for (int j = i; j < stu.size - 1; j++)

                {

                    stu.student_list[j] = stu.student_list[j + 1];

                }

                stu.size--;

                found = true;

                break;

            }


        }

        if(!found)

        {
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            System.out.println("No records found");
        }
    }
    static void display(Student stu)
    {
        System.out.println("The list is:");
        for (int i=0;i<stu.size;i++)
        {
            System.out.print(stu.student_list[i]+" ");
        }
        System.out.println();
    }
    public static void main(String[]args)
    {
        Student s=new Student();
        int choice;
        do{
        System.out.println("Enter the option");
        System.out.println("\n1.Insert\n2.Delete\n3.Display");

        choice=sc.nextInt();
            sc.nextLine();
        switch (choice)
        {
        case 1:

            insert(s);
            break;
        case 2:
            System.out.println("Enter the student id to remove");
            s.pos=sc.nextInt();
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                delete(s);
                break;


            case 3:
                display(s);
                break;
            default:
                System.out.println("Enter valid option");
                break;
            }



    }while(choice!=4);
    }



}
```