Assignment-2

Problem-1: **StudentRecordManager**

Create a Java class called **StudentRecordManager** to manage a list of student records. Each student record will have the following attributes:

1. **studentId**: An integer representing the unique ID of the student.

2. **name**: A string representing the name of the student.

3. **marks**: An array of integers representing the marks obtained by the student in different subjects.

Your **StudentRecordManager** class should have the following methods:

1. **public static double calculateAverage(int[] marks)**: Accepts an array of integers (marks) and returns the average of all marks.

2. **public static int findMax(int[] marks)**: Accepts an array of integers (marks) and returns the maximum mark.

3. **public static int findMin(int[] marks)**: Accepts an array of integers (marks) and returns the minimum mark.

4. **public static void displayStudentDetails(int studentId, String name, int[] marks)**: Accepts student ID, name, and an array of marks, and displays the student's details along with the calculated average, maximum, and minimum marks.

Hints: The main method looks like followings:

```
public class Main {

    public static void main(String[] args) {

        int[] marks1 = {80, 85, 90, 75, 95};

        int[] marks2 = {70, 65, 80, 75, 60};

        StudentRecordManager.displayStudentDetails(101, "Alice", marks1);

        StudentRecordManager.displayStudentDetails(102, "Bob", marks2);

    }

}
```

Output:

Student Details:

ID: 101

Name: Alice

Marks: [80, 85, 90, 75, 95]

Average Marks: 85.0

Maximum Mark: 95

Minimum Mark: 75

Student Details:

ID: 102

Name: Bob

Marks: [70, 65, 80, 75, 60]

Average Marks: 70.0

Maximum Mark: 80

Minimum Mark: 60