Student
- StudentId : int - StudentName : String - StudentAge : int
+ Student(stuId:int, stuName:String, age:int) + getter() / setter()

Section
- arrayStu : Student[] - counter:int
+ Section(size:int) + addStudent(stu: Student):Boolean + searchStudent(stuid:int):int +calculateTotalAges():int +calculateAvgAge():double +printStuData(stuid:int):void +deleteStu((stuid:int):Boolean +findMaxAge():int +findMinAge():int

Question#1: Write the Java code for classes Student and Section

Class Section:

AddStudent(student:stu): It will add the student details in the Array of objects(arrayStu) , returns true if successfully added otherwise it will return false.

SearchStudent(stuid:id): It will search for the detail of the student using the ID and return the index of the array. If not found, it returns -1.

calculateTotalAges(): calculate and returns the sum of ages of all students.

calculateAvgAge(): calculates and returns the average student age of the section.

printStuData(stuid:int): Prints the information about the student whose student id is stuid otherwise it displays “Student not Found”.

deleteStu((stuid:int): This method will delete student with given id stuid and returns true otherwise returns false if student is not found

findMaxAge(): return the maximum age of the student in the section.

findMinAge(): return the minimum age of the student in the section.

Question#2

Create a test class and creates an object of the Section class with size 10. Create 5 students objects and add them in section. Delete any one of the students, display maximum and minimum ages of the students in the section.