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| **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.**