

Calculate Student Score

- You are given a **Student** class which contains some student details.
- You need to extend a **Exam** subclass from this Student class.
- You need to calculate the total scores of the students in percentage and round off the score if there is any decimal value.
 1. For every correct answer, the score should be +3
 2. For every wrong answer, the score should be -1.5
- You need to display the student details and the total score as shown in Output format.
- Also, You need to display grades of the student in the test. Follow the below table for the grades.

Score in Percentage	Grade
≥ 90	A
81-89	B
71-80	C
61-70	D
51-60	E
≤ 50	F

- You need to implement these three methods:
 - `getStudentDetails()` → returns the details of the student (id, name and department)
 - `calculateTotalScore()` → calculates the total score of the student.
 - `calculateStudentGrade(totalScore)` → finds the grade of the student.

JSON Format

```
[  
  {  
    "studentId" : 1,  
    "studentName" : "Alex",  
    "totalScore" : 150,  
    "totalQuestions" : 50,  
    "correctAnswers" : 40  
  }, ... ]
```

Input Format

- [StudentId 1] [StudentId 2] [StudentId 3] ...

Output Format

- Student ID: [StudentID] | Student Name: [StudentName]
- [totalScore]%
- Student with student id [write id of the student here] got [write grade here]

Examples

1. Input: 3 6 9

Output: Student ID: 3 | Student Name: Priya

19%

Student with student id 3 got F

Student ID: 6 | Student Name: Ramu

61%

Student with student id 6 got C

Student ID: 9 | Student Name: Suman

76%

Student with student id 9 got B

Basic Instructions

1. You are required to solve this problem keeping the following points in mind:

- Use basic OOPs concepts
 - Use appropriate naming conventions
 - Avoid magic numbers as much as possible
 - Solution should be clean and readable
2. You are required to solve this problem within two hours.
 3. Basic boiler plate code will be provided to you.
 4. It is mandatory to refer the README.md file as it contains the information about running the test cases.
 5. Don't change the sample_input and test files, as it may result in the failure of the test cases.
 6. You can run your custom inputs by specifying the same in the custom_input.txt file and use the same while building the code