5.1.2 Student grade based on aggregate

Algorithm: Find Total, Percentage and Grade

Step 1: Start

Step 2: Input marks of 4 subjects

Step 3: Calculate total

- total = sum of all marks

Step 4: Calculate percentage

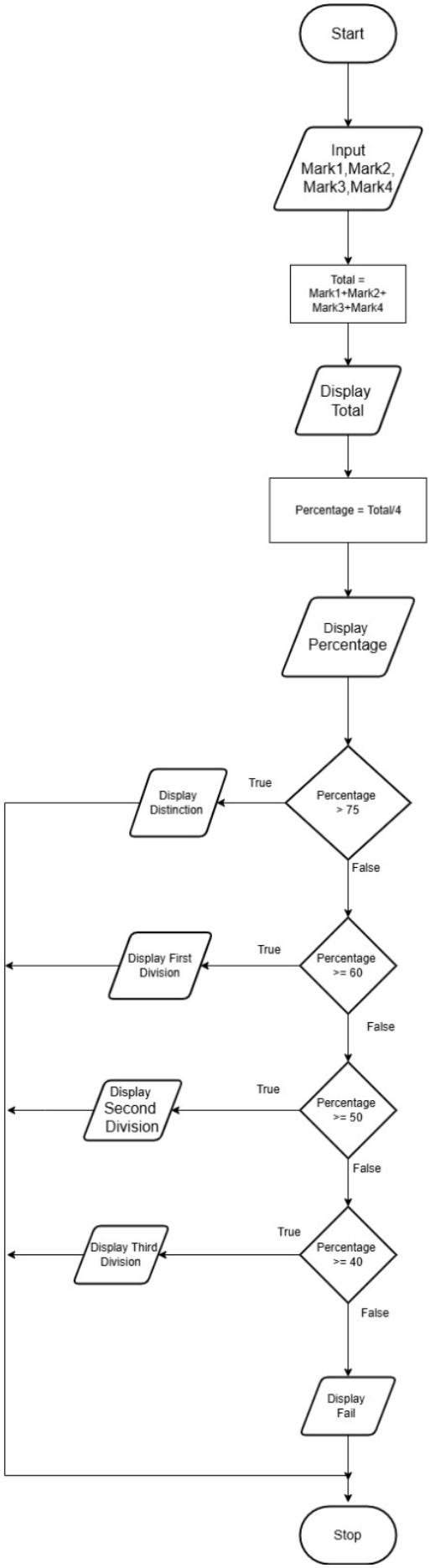
- percentage = (total / 400) × 100

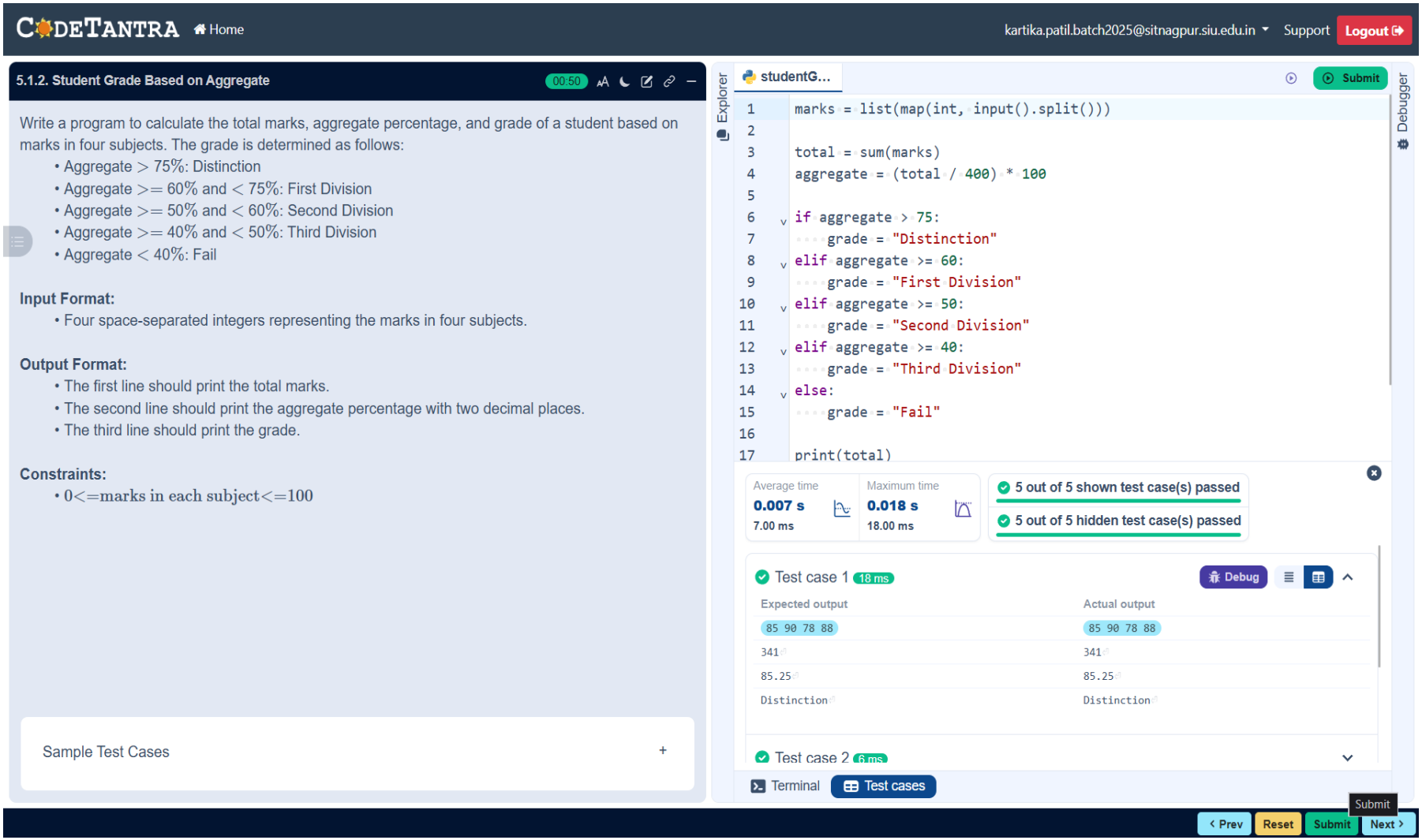
Step 5: Decide grade

- If percentage > 75 → Grade = Distinction
- Else if percentage ≥ 60 → Grade = First Division
- Else if percentage ≥ 50 → Grade = Second Division
- Else if percentage ≥ 40 → Grade = Third Division
- Else → Grade = Fail

Step 6: Print total, percentage, and grade

Step 7: Stop


Start
Input Mark1,Mark2, Mark3,Mark4
Total = Mark1+Mark2+ Mark3+Mark4
Display Total
Percentage = Total/4
Display Percentage
Percentage > 75
True
Display Distinction
False
Percentage >= 60
True
Display First Division
False
Percentage >= 50
True
Display Second Division
False
Percentage >= 40
True
Display Third Division
False
Display Fail
Stop


CODETANTRA
Home
kartika.patil.batch2025@sitnagpur.siu.edu.in
Support
Logout
5.1.2. Student Grade Based on Aggregate
00:50
Write a program to calculate the total marks, aggregate percentage, and grade of a student based on marks in four subjects. The grade is determined as follows:
• Aggregate > 75%: Distinction
• Aggregate >= 60% and < 75%: First Division
• Aggregate >= 50% and < 60%: Second Division
• Aggregate >= 40% and < 50%: Third Division
• Aggregate < 40%: Fail
Input Format:
• Four space-separated integers representing the marks in four subjects.
Output Format:
• The first line should print the total marks.
• The second line should print the aggregate percentage with two decimal places.
• The third line should print the grade.
Constraints:
• 0<=marks in each subject<=100
Sample Test Cases
Explorer
studentG...
Submit
Debugger
marks = list(map(int, input().split()))
total = sum(marks)
aggregate = (total / 400) * 100
if aggregate > 75:
grade = "Distinction"
elif aggregate >= 60:
grade = "First Division"
elif aggregate >= 50:
grade = "Second Division"
elif aggregate >= 40:
grade = "Third Division"
else:
grade = "Fail"
print(total)
Average time
0.007 s
7.00 ms
Maximum time
0.018 s
18.00 ms
5 out of 5 shown test case(s) passed
5 out of 5 hidden test case(s) passed
Test case 1 18 ms
Debug
Expected output
Actual output
85 90 78 88
341
85.25
Distinction
Test case 2 6 ms
Terminal
Test cases
Submit
Prev
Reset
Submit
Next