5.1.2

Problem Statement

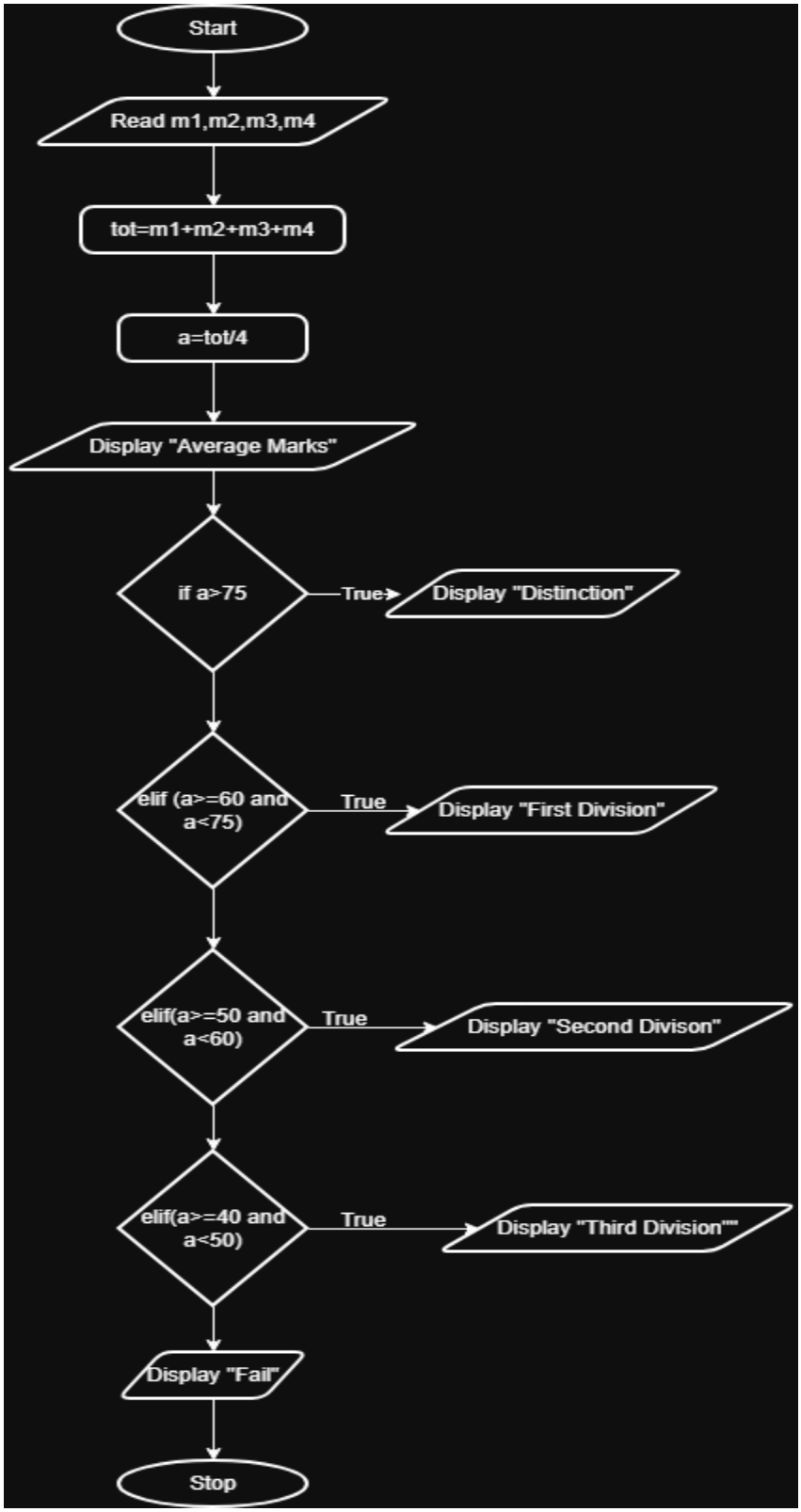
Write a program to calculate the total marks, aggregate percentage, and grade of a student based on marks in four subjects. The grade is determined as follows:

Aggregate > 75 : Distinction
Aggregate ≥ 60 and < 75 : First Division
Aggregate ≥ 50 and < 60 : Second Division
Aggregate ≥ 40 and < 50 : Third Division
Aggregate < 40 : Fail

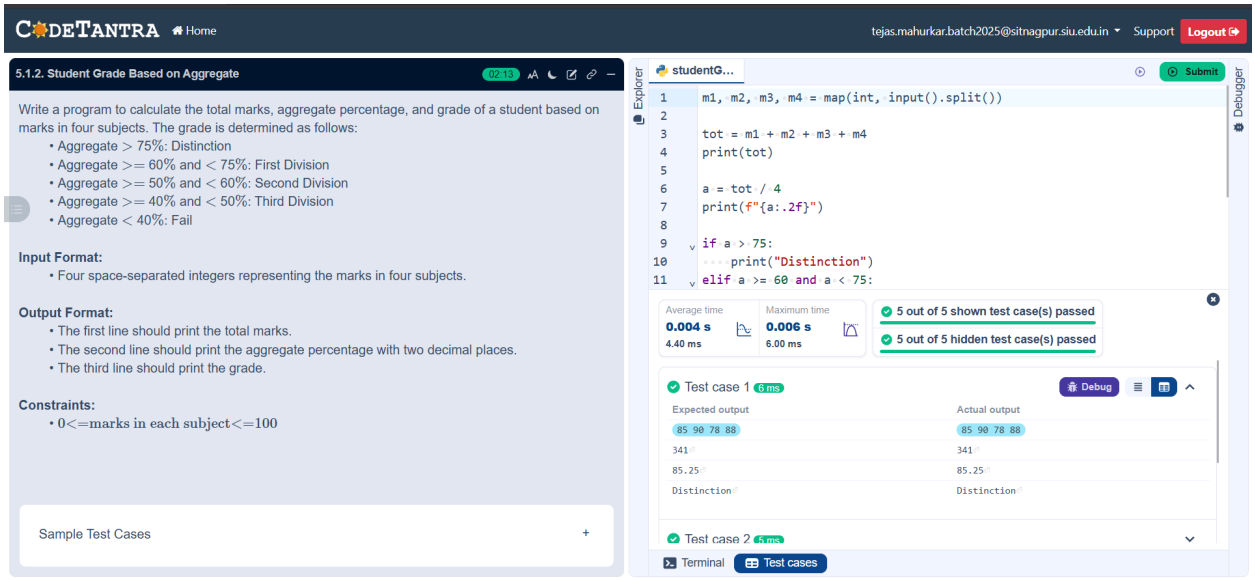
Algorithm

1. Start.
2. Read four marks: `m1`, `m2`, `m3`, `m4`.
3. Calculate total marks:
   `total = m1 + m2 + m3 + m4`
4. Calculate aggregate percentage:
   `percentage = total / 4`
5. If `percentage > 75`, print **“Distinction.”**
6. Else if `percentage ≥ 60` and `< 75`, print **“First Division.”**
7. Else if `percentage ≥ 50` and `< 60`, print **“Second Division.”**
8. Else if `percentage ≥ 40` and `< 50`, print **“Third Division.”**
9. Else, print **“Fail.”**
10. Print total marks.
11. Print aggregate percentage.
12. Stop.

Flowchart:


Start
Read m1,m2,m3,m4
tot=m1+m2+m3+m4
a=tot/4
Display "Average Marks"
if a>75
True
Display "Distinction"
elif (a>=60 and a<75)
True
Display "First Division"
elif(a>=50 and a<60)
True
Display "Second Divison"
elif(a>=40 and a<50)
True
Display "Third Division""
Display "Fail"
Stop

CODE: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Support
Logout
5.1.2. Student Grade Based on Aggregate
02:13
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
1 m1, m2, m3, m4 = map(int, input().split())
2
3 tot = m1 + m2 + m3 + m4
4 print(tot)
5
6 a = tot / 4
7 print(f"{a:.2f}")
8
9 if a > 75:
10 print("Distinction")
11 elif a >= 60 and a < 75:
Average time
0.004 s
4.40 ms
Maximum time
0.006 s
6.00 ms
5 out of 5 shown test case(s) passed
5 out of 5 hidden test case(s) passed
Test case 1 6 ms
Debug
Expected output
85 90 78 88
341
85.25
Distinction
Actual output
85 90 78 88
341
85.25
Distinction
Test case 2
Terminal
Test cases