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5.1.2 Student Grade Based on Aggregate

Algorithm:

Step 1: Start the program.

Step 2: Input four integer marks: m1, m2, m3, m4.

Step 3: Calculate total marks: total = m1 + m2 + m3 + m4.

Step 4: Calculate aggregate percentage: aggregate = (total / 400) * 100.

Step 5: If aggregate > 75, assign grade = 'Distinction'.

Step 6: Else if aggregate >= 60, assign grade = 'First Division'.

Step 7: Else if aggregate >= 50, assign grade = 'Second Division'.

Step 8: Else if aggregate >= 40, assign grade = 'Third Division'.

Step 9: Else assign grade = 'Fail'.

Step 10: Print total marks.

Step 11: Print aggregate percentage (two decimal places).

Step 12: Print the grade.

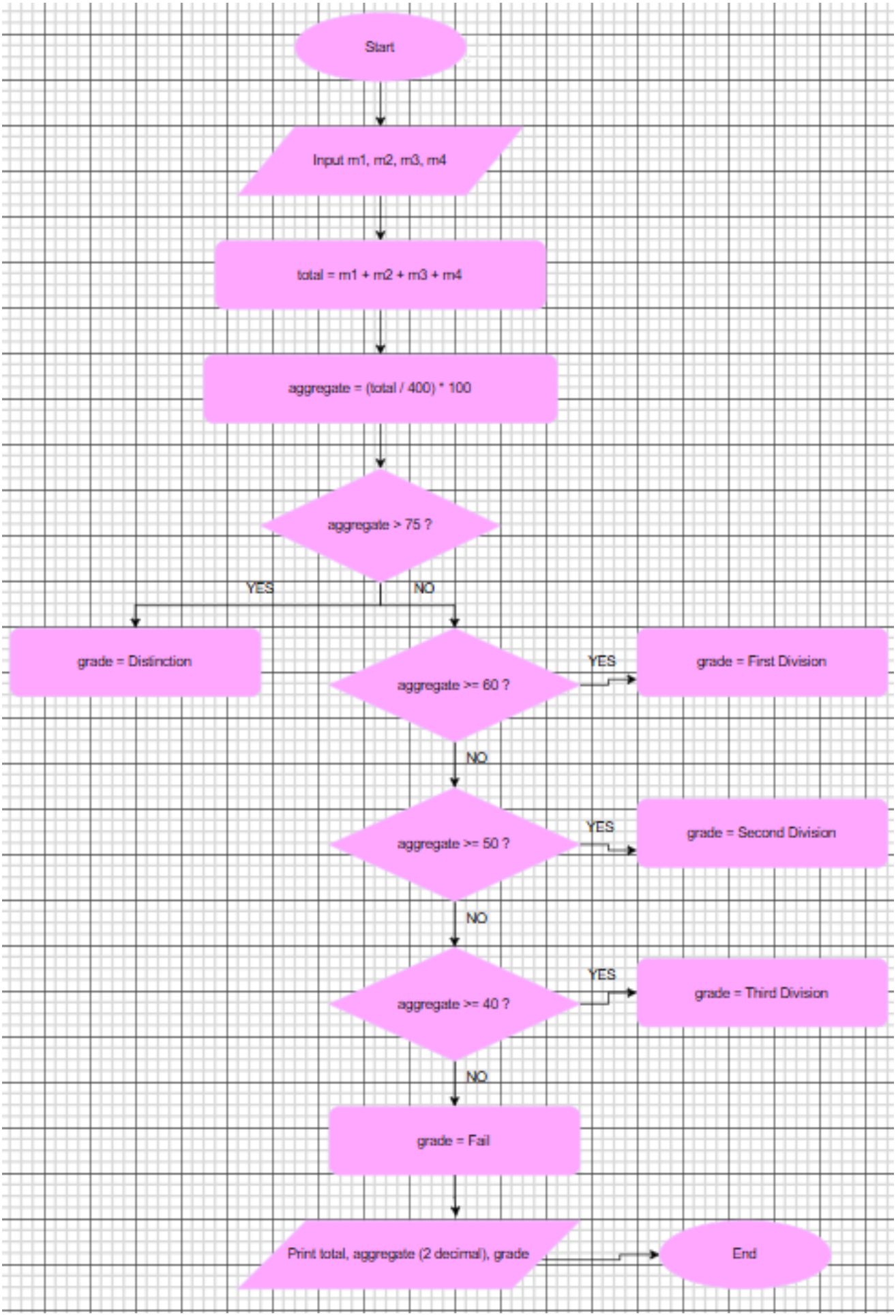
Step 13: End the program.

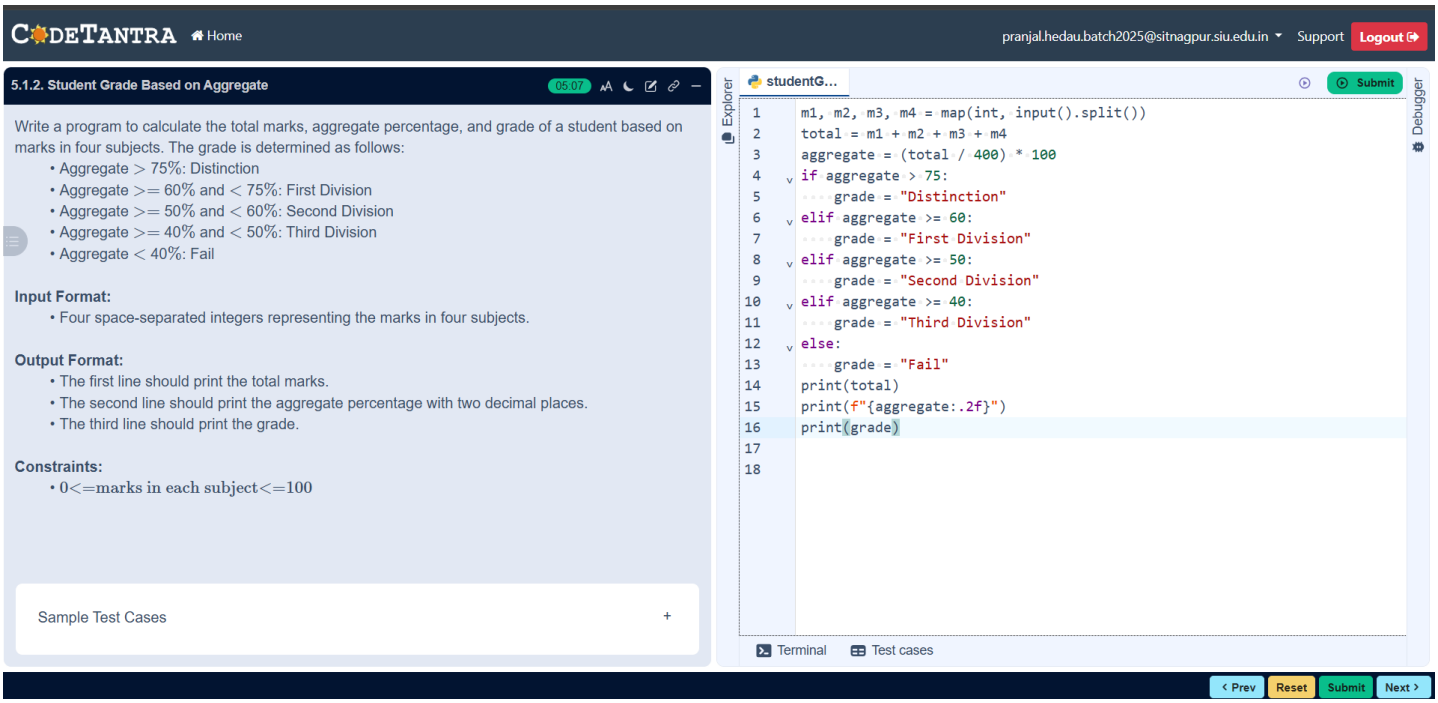
Code:

```
m1, m2, m3, m4 = map(int, input().split())
total = m1 + m2 + m3 + m4
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)
print(f"{aggregate:.2f}")
print(grade)
```


Start
Input m1, m2, m3, m4
total = m1 + m2 + m3 + m4
aggregate = (total / 400) * 100
aggregate > 75 ?
YES
NO
grade = Distinction
aggregate >= 60 ?
YES
grade = First Division
NO
aggregate >= 50 ?
YES
grade = Second Division
NO
aggregate >= 40 ?
YES
grade = Third Division
NO
grade = Fail
Print total, aggregate (2 decimal), grade
End


CODETANTRA
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Support
Logout
5.1.2. Student Grade Based on Aggregate
05:07
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 total = m1 + m2 + m3 + m4
3 aggregate = (total / 400) * 100
4 if aggregate > 75:
5 grade = "Distinction"
6 elif aggregate >= 60:
7 grade = "First Division"
8 elif aggregate >= 50:
9 grade = "Second Division"
10 elif aggregate >= 40:
11 grade = "Third Division"
12 else:
13 grade = "Fail"
14 print(total)
15 print(f"{aggregate:.2f}")
16 print(grade)
17
18
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›