Experiment 5

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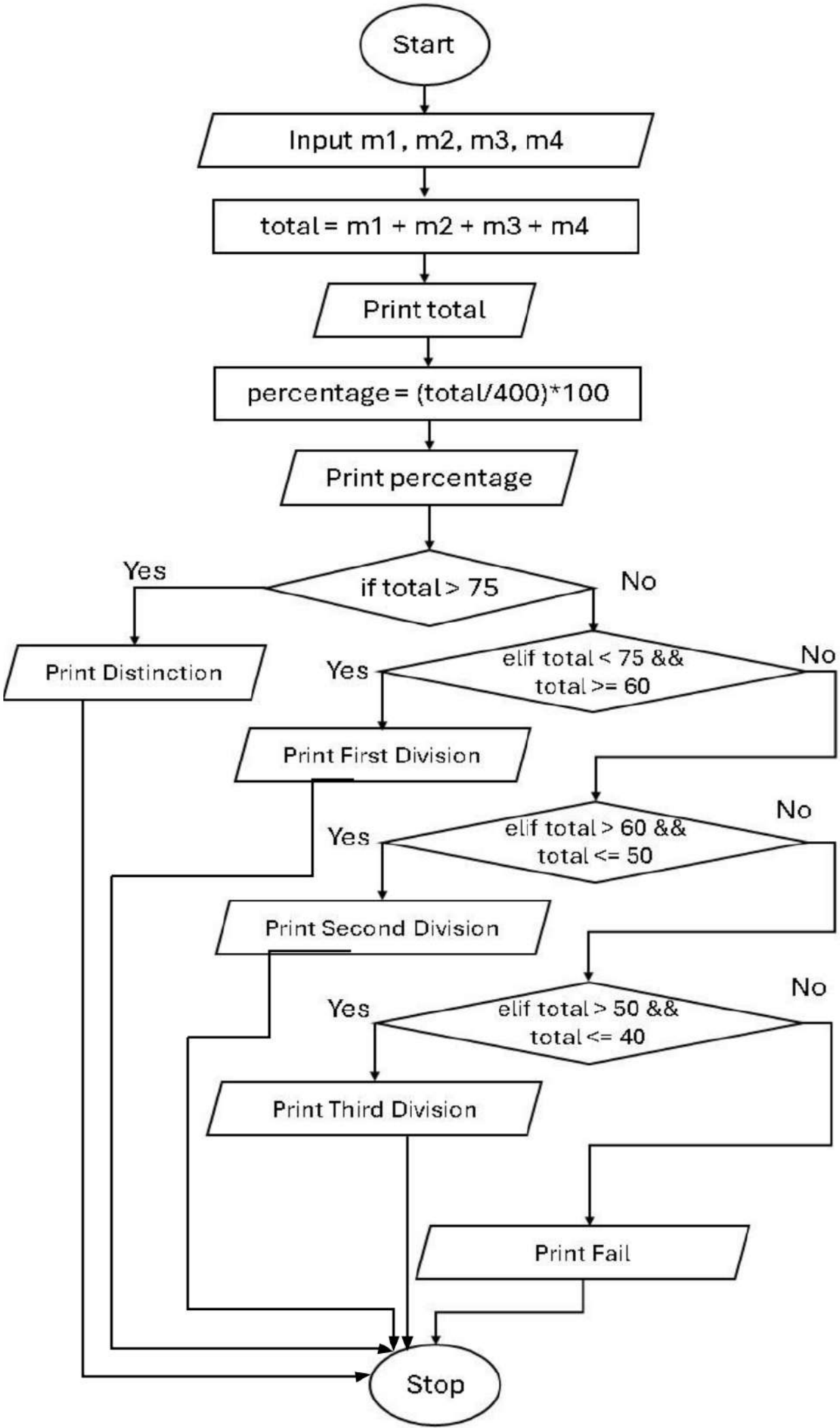
5.1.2 Student Grade Based on Aggregate

Algorithm :

Step 1 : Start
Step 2 : Input m1, m2, m3, m4
Step 3 : Calculate
total = m1 + m2 + m3 + m4
Step 4 : Print total
Step 5 : Calculate
percentage = (total/400)*100
Step 6 : Print percentage
Step 7 : if (percentage > 75)
Print Distinction
else if (percentage >= 60 & percentage<
75
Print First Division
else if (percentage >= 50 & percentage<
60
Print Second Division
else if (percentage >= 40 & percentage<
50
Print Third Division
else
Print Fail
Step 8 : Stop

Flowchart


Start
Input m1, m2, m3, m4
total = m1 + m2 + m3 + m4
Print total
percentage = (total/400)*100
Print percentage
if total > 75
Yes
No
Print Distinction
elif total < 75 && total >= 60
Yes
No
Print First Division
elif total > 60 && total <= 50
Yes
No
Print Second Division
elif total > 50 && total <= 40
Yes
No
Print Third Division
Print Fail
Stop

:

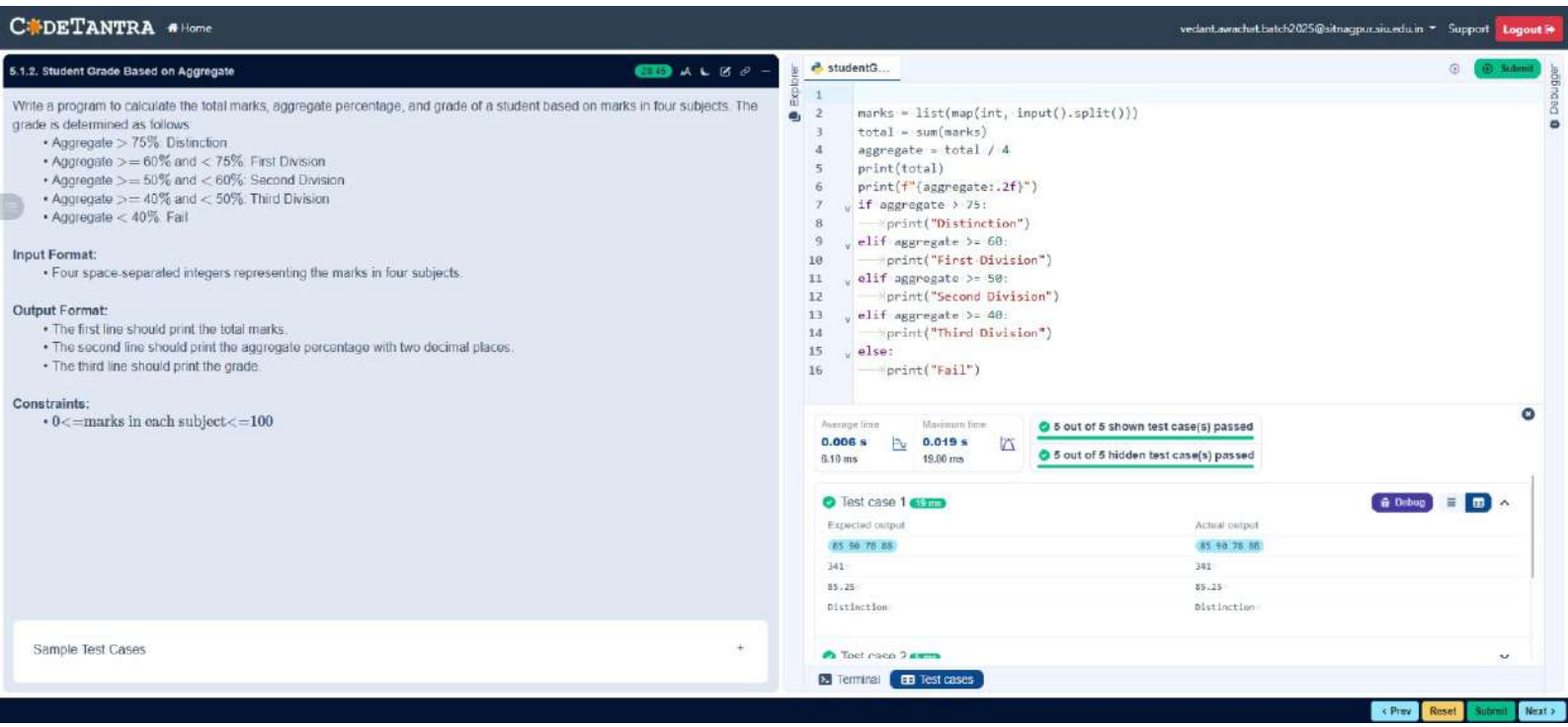
Code

:

```
m1,m2,m3,m4 = map(int,input().split())
total = m1+m2+m3+m4
print(total)
percentage = (total/400)*100
print(f"{percentage:.2f}')
if(percentage > 75):
    print("Distinction")
elif (percentage >= 60 and percentage
<75):
    print("First Division")
elif (percentage >= 50 and percentage <
60);
    print("Second Division")
elif (percentage >= 40 and percentage <
50):
    print("Third Division")
else:
    print("Fail")
```

Execution

: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5.1.2. Student Grade Based on Aggregate
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
studentG...
Submit
Explorer
Debugger
marks = list(map(int, input().split()))
total = sum(marks)
aggregate = total / 4
print(total)
print(f"{aggregate:.2f}")
if aggregate > 75:
print("Distinction")
elif aggregate >= 60:
print("First Division")
elif aggregate >= 50:
print("Second Division")
elif aggregate >= 40:
print("Third Division")
else:
print("Fail")
Average time
0.006 s
6.10 ms
Maximum time
0.019 s
19.00 ms
5 out of 5 shown test case(s) passed
5 out of 5 hidden test case(s) passed
Test case 1
Debug
Expected output
85 90 78 88
341
85.25
Distinction
Actual output
85 90 78 88
341
85.25
Distinction
Terminal
Test cases
< Prev
Reset
Submit
Next >