5.1.2 Calculate Total, Average and Division

A) Algorithm

Step 1: Start
Step 2: Input the marks of students separated by space and store them in list marks
Step 3: Calculate the total marks using
total = sum(marks)
Step 4: Calculate the average marks using
average = total / len(marks)
Step 5: Print the total marks
Step 6: Print the average marks up to 2 decimal places
Step 7: Check the average marks

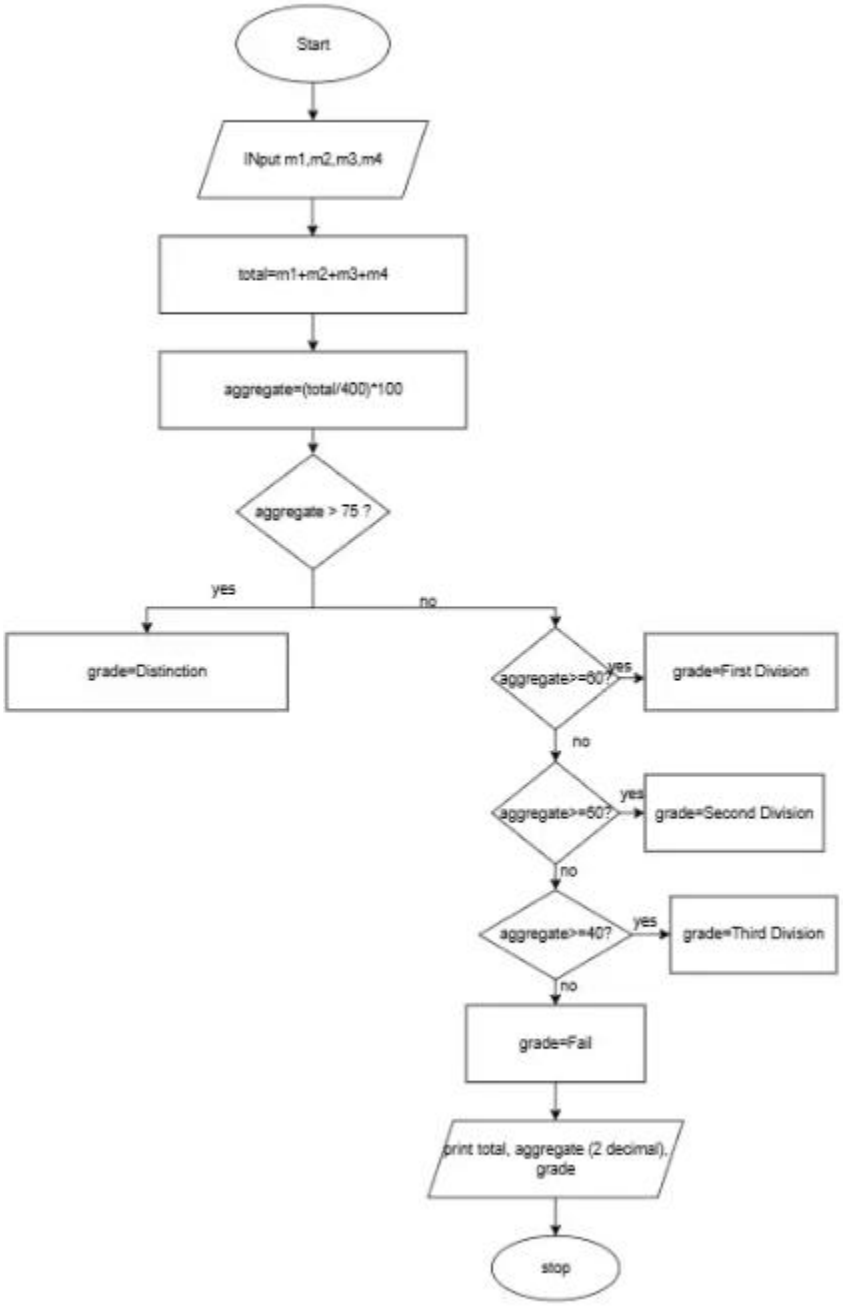
- If average ≥ 85, print "Distinction"
- Else if average ≥ 60, print "First Division"
- Else if average ≥ 50, print "Second Division"
- Else if average ≥ 40, print "Third Division"
- Else print "Fail"

Step 8: Stop

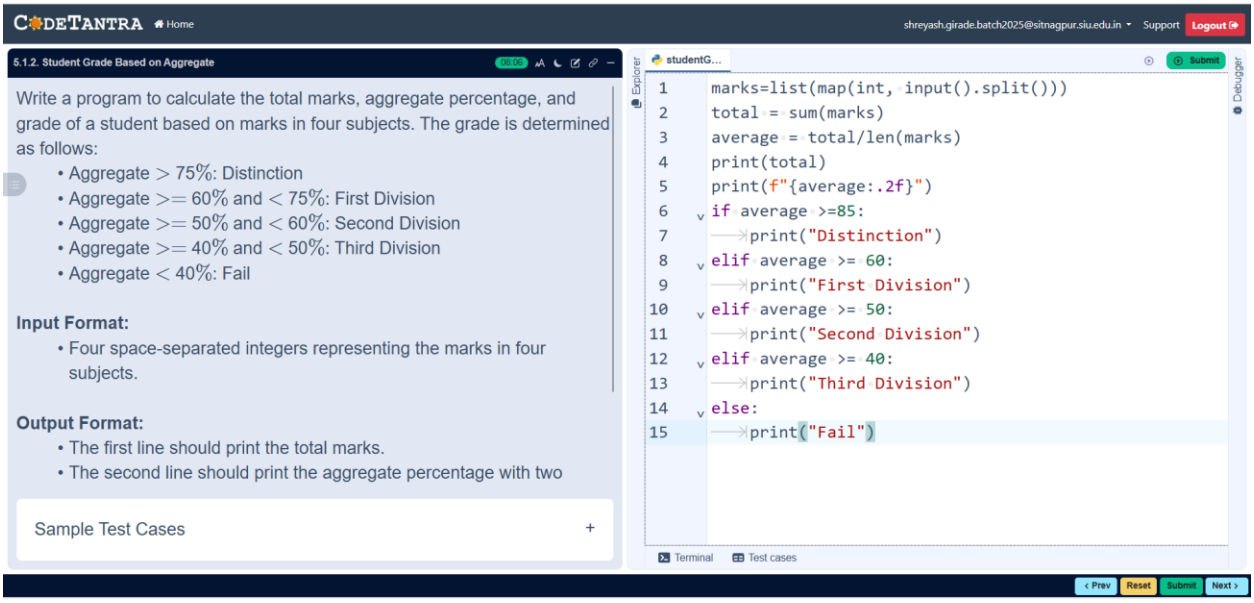
B) Code

```
marks=list(map(int, input().split()))
total = sum(marks)
average = total/len(marks)
print(total)
print(f"{average:.2f}")
if average >=85:
        print("Distinction")
elif average >= 60:
        print("First Division")
elif average >= 50:
        print("Second Division")
elif average >= 40:
        print("Third Division")
else:
        print("Fail")
```

C) Flowchart


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
stop

D) Output


CODETANTRA
Home
shreyash.girade.batch2025@sitnagpur.siu.edu.in
Support
Logout
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
Sample Test Cases
studentG...
Submit
Explorer
Debugger
1 marks=list(map(int, input().split()))
2 total = sum(marks)
3 average = total/len(marks)
4 print(total)
5 print(f"{average:.2f}")
6 if average >=85:
7 print("Distinction")
8 elif average >= 60:
9 print("First Division")
10 elif average >= 50:
11 print("Second Division")
12 elif average >= 40:
13 print("Third Division")
14 else:
15 print("Fail")
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›