5.1.2 Calculate Total, Average and Division

A) Algorithm

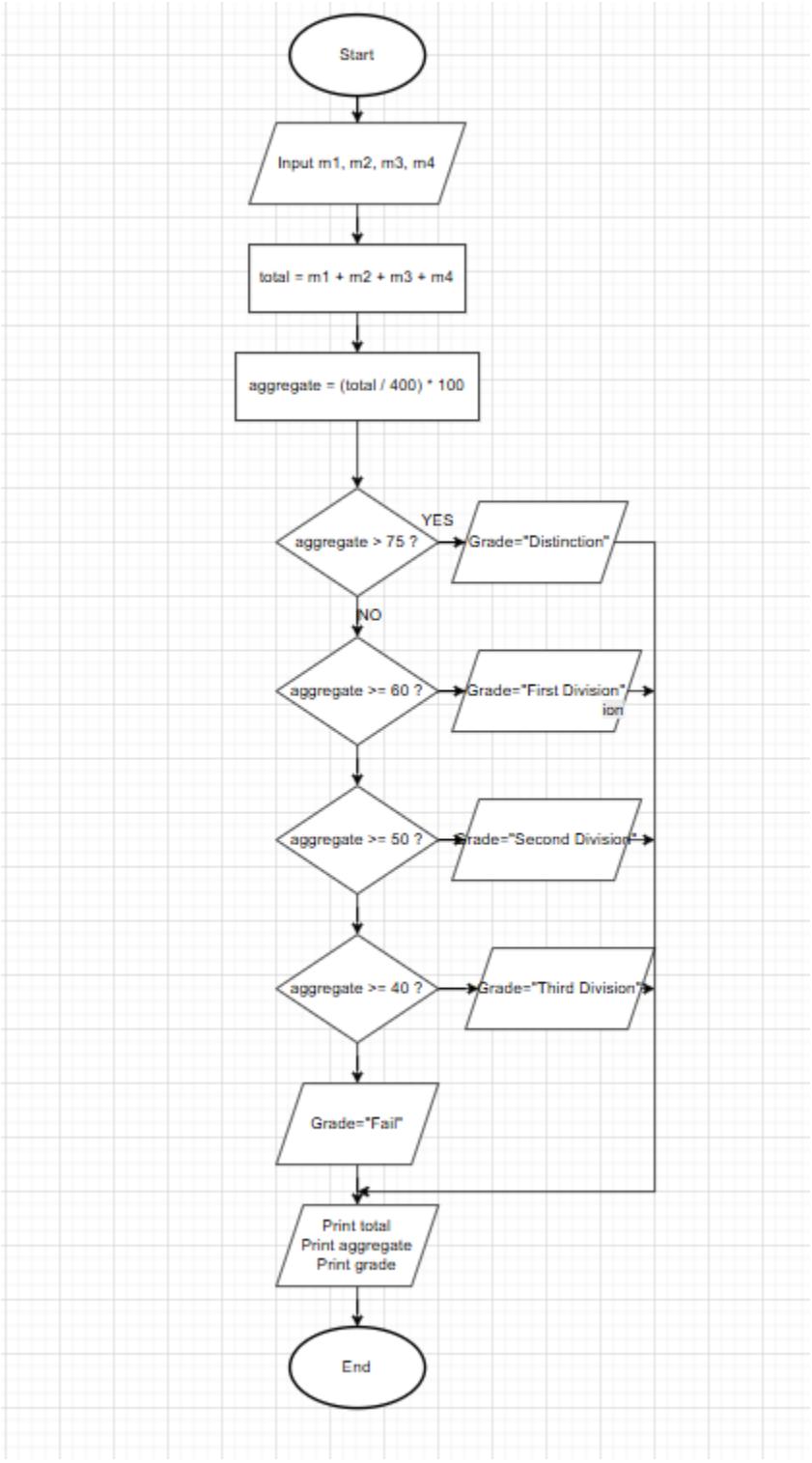
Step 1: Start
Step 2: Input the marks of students separated by space and store them in list marks
Step 3: Calculate the total marks using
total = sum(marks)
Step 4: Calculate the average marks using
average = total / len(marks)
Step 5: Print the total marks
Step 6: Print the average marks up to 2 decimal places
Step 7: Check the average marks
- If average ≥ 75, 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

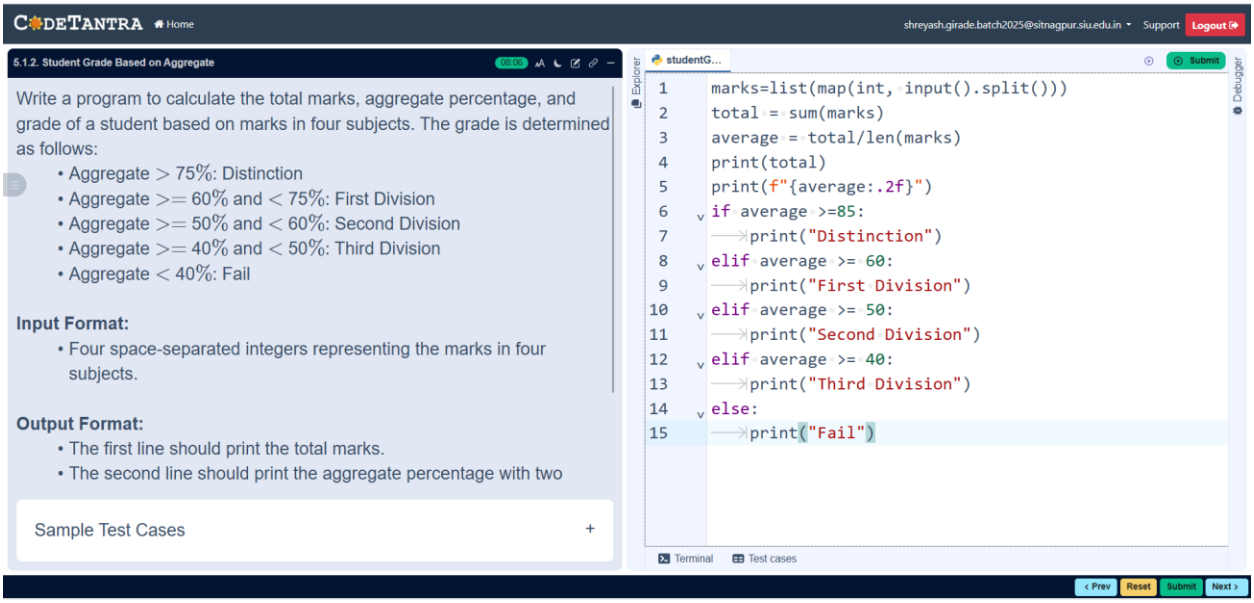
B) Code

```
marks=list(map(int, input().split()))
total = sum(marks)
average = total/len(marks)
print(total)
print(f"{average:.2f}")
if average >=75:
        print("Distinction")
elif average >= 60:
        print("First Division")
elif average >= 50:
        print("Second Division")
elif average >= 40:
        print("Third Division")
else:
        print("Fail")
```

C) Flowvchart



D) output


CODETANTRA
Home
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Support
Logout
5.1.2. Student Grade Based on Aggregate
08:06
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
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")
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›