

Experiment 5.1.2

Aim:- Write a program to calculate the total marks, aggregate percentage, and grade of a student based on marks in four subjects.

Algorithm:-

Step 1: Start

Step 2: Read marks of four subjects
m1, m2, m3, m4

Step 3: Calculate total marks
 $\text{total} = m1 + m2 + m3 + m4$

Step 4: Calculate aggregate percentage
 $\text{aggregate} = (\text{total} / 400) \times 100$

Step 5: Determine the grade

- If $\text{aggregate} \geq 75$
Grade = **Distinction**
- Else if $\text{aggregate} \geq 60$ and < 75
Grade = **First Division**
- Else if $\text{aggregate} \geq 50$ and < 60
Grade = **Second Division**

- Else if aggregate ≥ 40 and < 50

Grade = **Third Division**

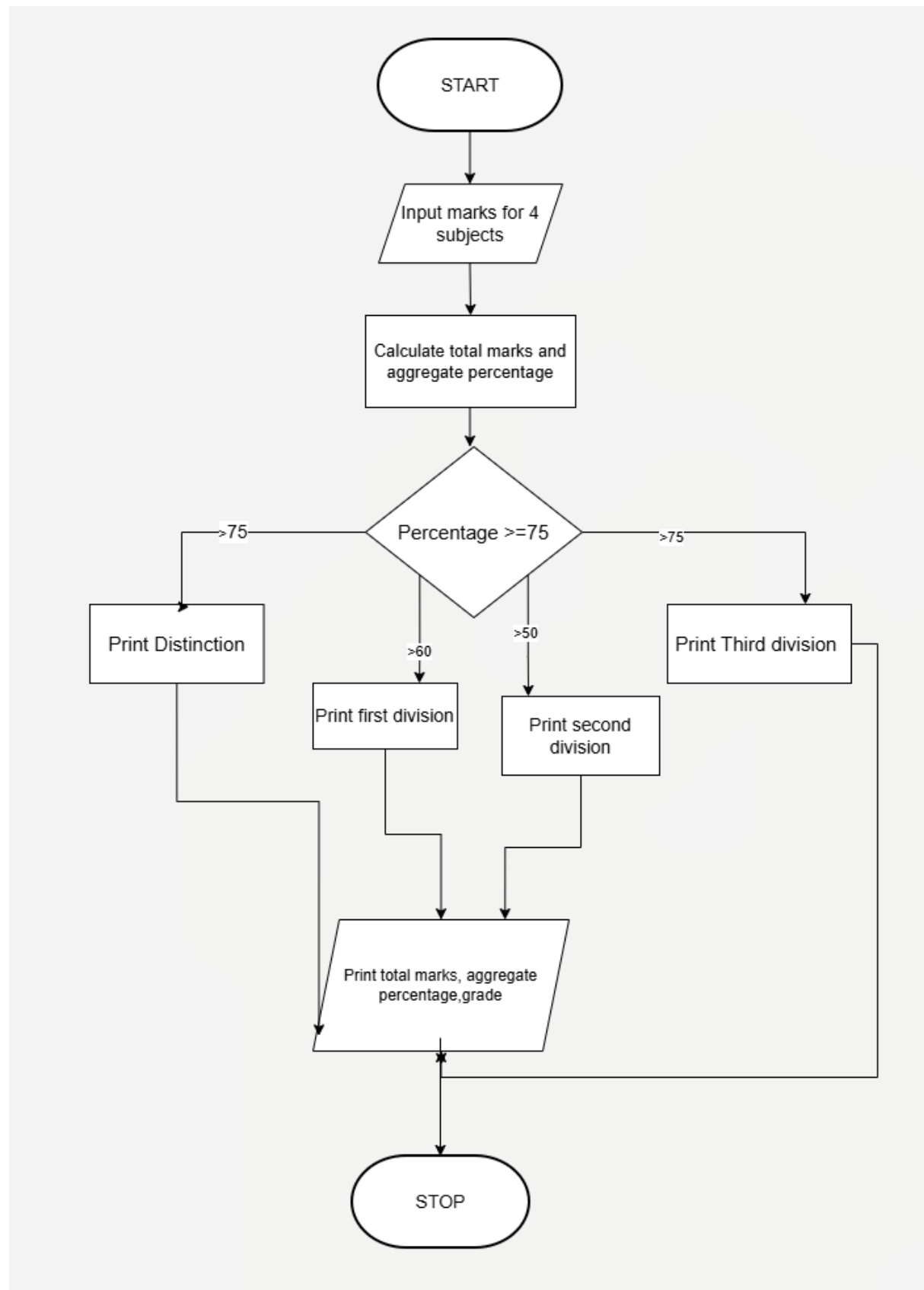
- Else

Grade = **Fail**

Step 6: Display total marks, aggregate percentage, and grade

Step 7: Stop

Flowchart:-



Code:-

CODETANTRA

Home

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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

studentG...

```
1 # Input marks for four subjects (space-separated)
2 marks = list(map(int, input().split()))
3
4 # Calculate total marks
5 total_marks = sum(marks)
6
7 # Calculate aggregate percentage
8 aggregate = total_marks / 4
9
10 # Determine grade based on aggregate percentage
11 if aggregate >= 75:
12     grade = "Distinction"
13 elif 60 <= aggregate < 75:
14     grade = "First Division"
15 elif 50 <= aggregate < 60:
```

Average time0.004 s4.30 ms

Maximum time0.009 s9.00 ms

5 out of 5 shown test case(s) passed

5 out of 5 hidden test case(s) passed

Test case 14 ms

Expected output

85 90 78 88

341

85.25

Distinction

Actual output

85 90 78 88

341

85.25

Distinction

Test case 24 ms

Terminal

Test cases

Sample Test Cases

+

< Prev

Reset

Submit

Next >