

Name: Aryan Shegokar

PRN:25070521180

5.1.2. Student Grade Based on Aggregate

Algorithm: Grade Calculation

- **Step 1: Start.**
- **Step 2: Read the input string of numbers, split them, and store them as a list of integers in marks.**
- **Step 3: Calculate total by summing all elements in the marks list.**
- **Step 4: Calculate aggregate by dividing the total by 4 (assuming there are 4 subjects).**
- **Step 5: Check the aggregate score against the thresholds:**
 - If aggregate ≥ 75 , set grade to "Distinction".
 - Else If aggregate ≥ 60 , set grade to "First Division".
 - Else If aggregate ≥ 50 , set grade to "Second Division".
 - Else If aggregate ≥ 40 , set grade to "Third Division".
 - Else (if none of the above), set grade to "Fail".
- **Step 6: Print the total.**
- **Step 7: Print the aggregate (formatted to 2 decimal places).**
- **Step 8: Print the final grade.**
- **Step 9: End.**

#Code:

```
marks = list(map(int, input().split()))

total = sum(marks)

aggregate = total / 4

if aggregate >= 75:

    grade = "Distinction"
elif aggregate >= 60:
    grade = "First Division"
elif aggregate >= 50:
    grade = "Second Division"
else:
    grade = "Fail"
```

elif aggregate >= 40:

grade = "Third Division"

else:

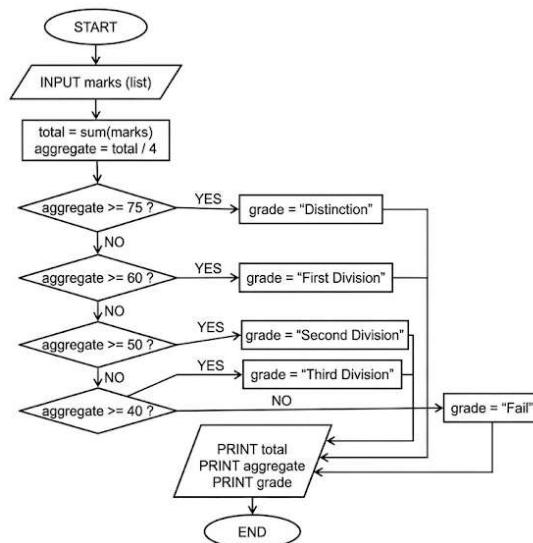
grade = "Fail"

print(total)

print(f"{aggregate:.2f}")

print(grade)

Flowchart:



C*DE*TANTRA [Home](#)

5.1.2. Student Grade Based on Aggregate 01:10

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

student...

```
1 marks = list(map(int, input().split()))
2
3 total = sum(marks)
4 aggregate = total / 4
5
6 v if aggregate >= 75:
7     , grade = "Distinction"
8 v elif aggregate >= 60:
9     , grade = "First Division"
10 v elif aggregate >= 50:
11     , grade = "Second Division"
12 v elif aggregate >= 40:
13     , grade = "Third Division"
14 v else:
15     , grade = "Fail"
16
17 print(total)
18 print(f'{aggregate:.2f}')
19 print(grade)
20
```

Average time: 0.009 s Maximum time: 0.014 s 5 out of 5 shown test case(s) passed

9.40 ms

Test case 1: 13 ms

Expected output: 85 99 78 88

Actual output: 85 99 78 88

341

85.25

Distinction

Test case 2: 13 ms

Expected output: 85 99 78 88

Actual output: 85 99 78 88

341

85.25

Distinction

Sample Test Cases