

Experiment 5

5.1.2 Student Grade Based on Aggregate

Algorithm :

Step 1 : Start

Step 2 : Input m1, m2, m3, m4

Step 3 : Calculate

$\text{total} = m1 + m2 + m3 + m4$

Step 4 : Print total

Step 5 : Calculate

$\text{percentage} = (\text{total}/400) * 100$

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)

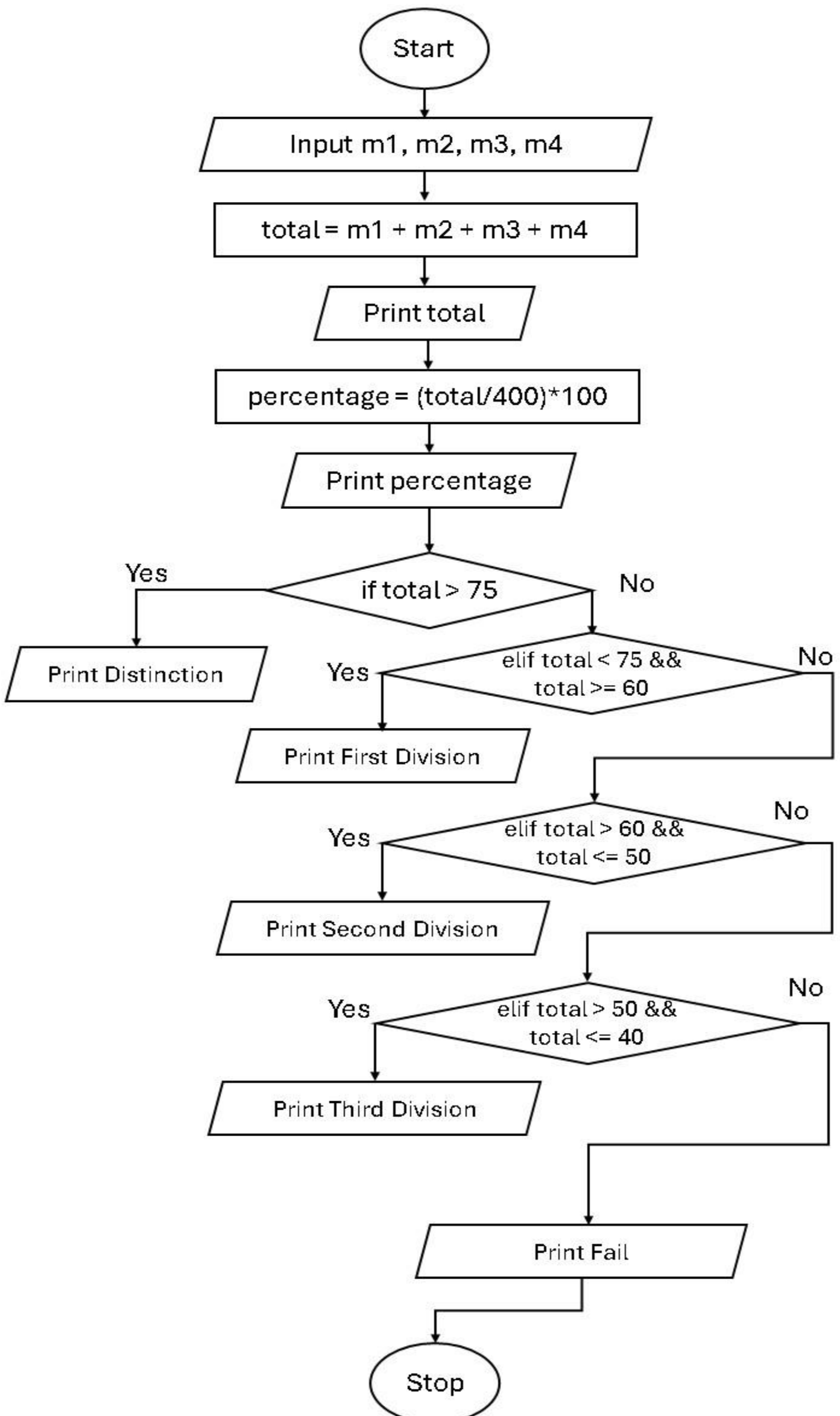
 Print Third Division

 else

 Print Fail

Step 8 : Stop

Flowchart :



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
48:55

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

```

1 m1,m2,m3,m4=map(int,input().split())
2 total=m1+m2+m3+m4
3 print(total)
4 percentage=(total/400)*100
5 print(f"{percentage:.2f}")
6 if (percentage > 75):
7     print("Distinction")
8 elif (percentage >= 60 and percentage < 75):
9     print("First Division")
10 elif (percentage >= 50 and percentage < 60):
11     print("Second Division")
12 elif (percentage >= 40 and percentage < 50):
13     print("Third Division")
14 else:
15     print("Fail")

```

Average time
0.006 s
5.70 ms

Maximum time
0.010 s
10.00 ms

5 out of 5 shown test case(s) passed
5 out of 5 hidden test case(s) passed

Test case 1 7 ms

Test case 2 10 ms

Test case 3 6 ms

Test case 4 6 ms

Test case 5 7 ms

Terminal
Test cases

< Prev

Reset

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