

# Experiment 5

## 5.1.2 Student Grade Based on Aggregate

### Algorithm :

Step 1 : Start

Step 2 : Input m<sub>1</sub>, m<sub>2</sub>, m<sub>3</sub>, m<sub>4</sub>

Step 3 : Calculate

$$\text{total} = m_1 + m_2 + m_3 + m_4$$

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)

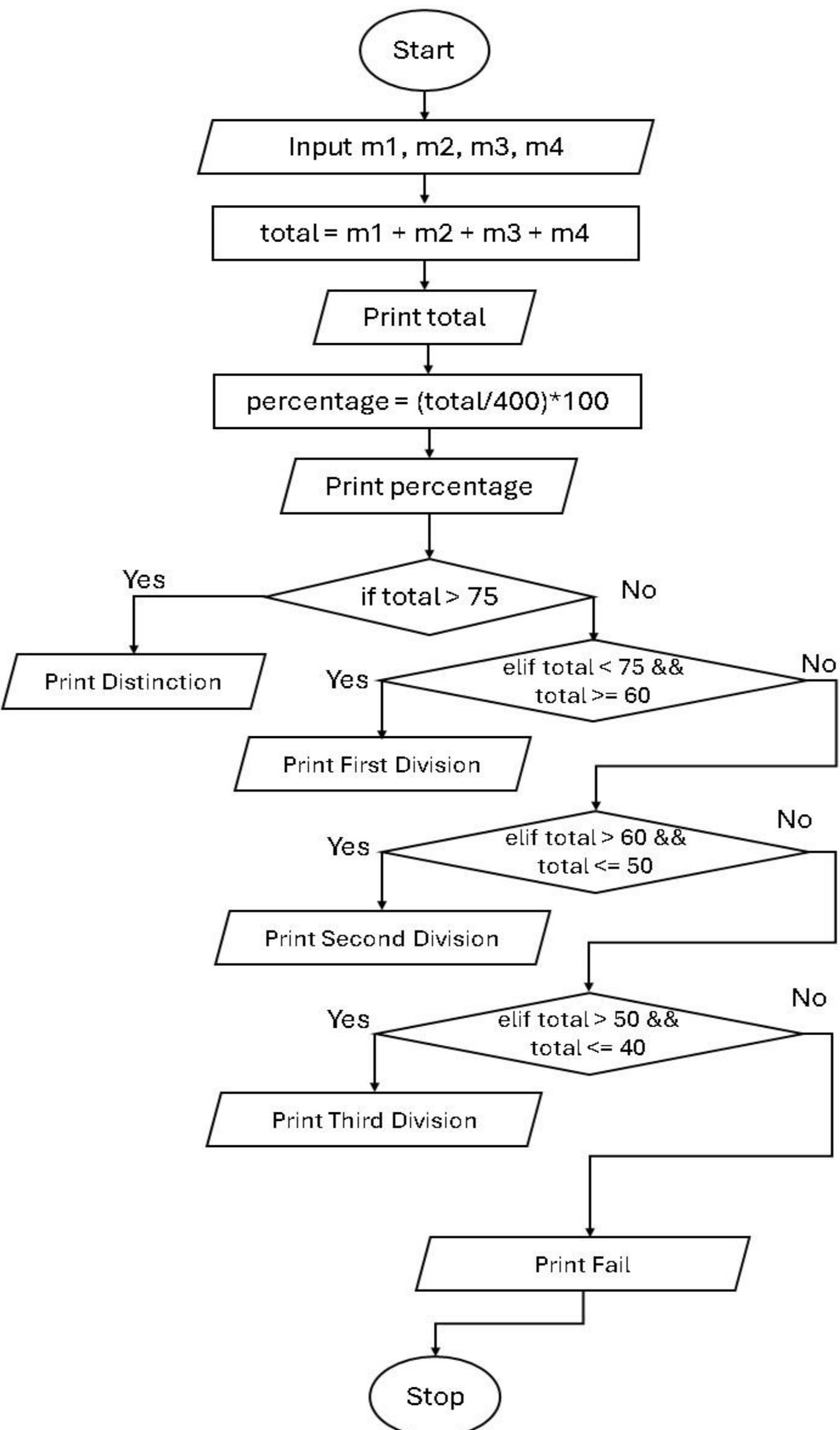
    Print Third Division

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 :

**CODETANTRA** Home

om.mahajan.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 decimal places.
- The third line should print the grade.

**Constraints:**

- 0 <= marks in each subject <= 100

Sample Test Cases

studentG

```

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 Maximum time: 0.010 s  
5.70 ms 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 (5 ms)  
Test case 4 (6 ms)  
Test case 5 (7 ms)

Terminal Test cases

< Prev Reset Submit Next >