

## 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

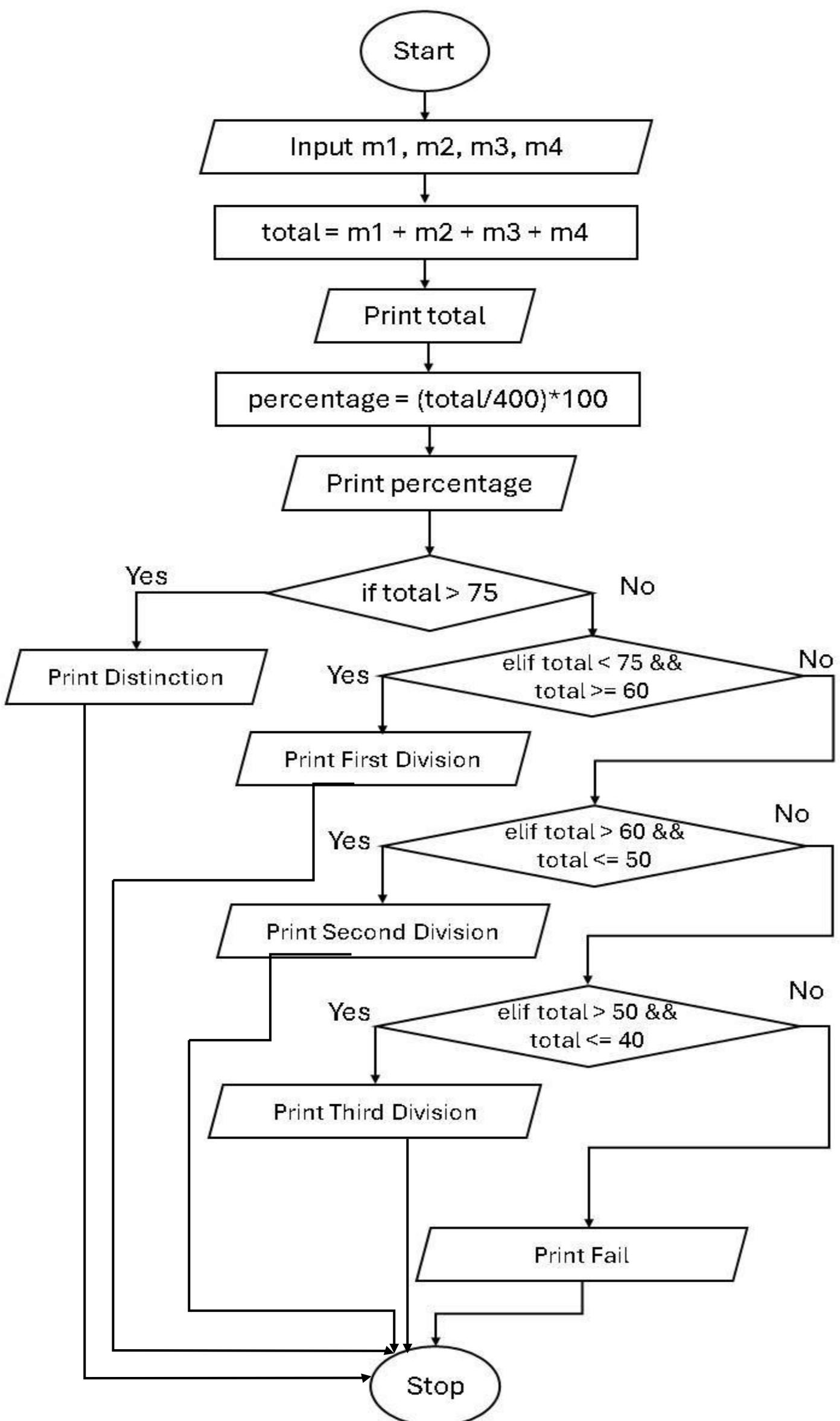
>= 40 & percentage < 50

        Print Third Division

    else

        Print Fail

Step 8 : Stop



# 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 08:24 A ⚡ -

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:**  
 $0 \leq \text{marks in each subject} \leq 100$

studentG...

```
# Write your code here...
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")
```

Average time Maximum time  
0.003 s 0.004 s  
3.00 ms 4.00 ms

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

Test case 1	4 ms
Expected output	Actual output
85 90 78 88	85 90 78 88
341	341
85.25	85.25
Distinction	Distinction

Test case 2 2 ms

Terminal Test cases

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