

## Experiment 5.1.2

Algorithm:

Step 1: Start

Step 2: Input four integers a, b, c, d

Step 3: Calculate total = a + b + c + d

Step 4: Print total

Step 5: Calculate per = (total / 400) \* 100

Step 6: Print per rounded to two decimal places

Step 7: If per > 75

    Print "Distinction"

Step 8: Else if per >= 60 and per <= 75

    Print "First Division"

Step 9: Else if per >= 50 and per < 60

    Print "Second Division"

Step 10: Else if per >= 40 and per < 50

    Print "Third Division"

Step 11: Else

    Print "Fail"

Step 12: Stop

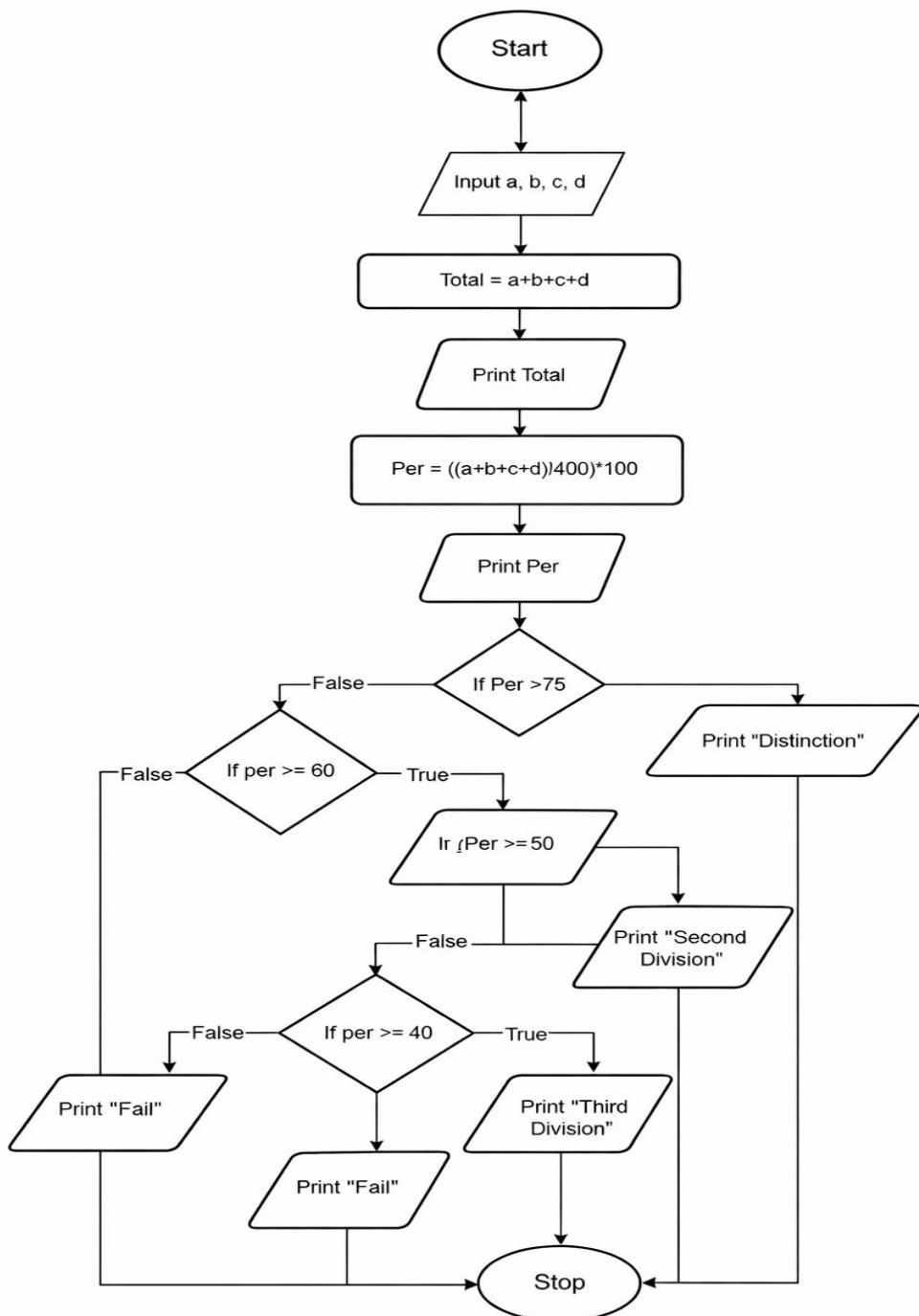
Code:

```
a, b, c, d = map(int,input().split())
```

```
print(a+b+c+d)
```

```
per = ((a+b+c+d)/400)*100  
  
print(f"{per:.2f}")  
  
if per>75:  
  
    print("Distinction")  
  
elif per>=60 and per<=75:  
  
    print("First Division")  
  
elif per>=50 and per<=60:  
  
    print("Second Division")  
  
elif per>=40 and per<=50:  
  
    print("Third Division")  
  
else:  
  
    print("Fail")
```

## FlowChart:



### 5.1.2. Student Grade Based on Aggregate

07.19 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:**

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

## Sample Test Cases

ExplorerstudentG...SubmitDebugger

```
1 a, b, c, d = map(int,input().split())
2 print(a+b+c+d)
3 per = ((a+b+c+d)/400)*100
4 print(f"{per:.2f}")
5 if per>75:
6     print("Distinction")
7 elif per>=60 and per<=75:
8     print("First Division")
9 elif per>=50 and per<=60:
10    print("Second Division")
```

Average time: 0.002 s Maximum time: 0.006 s  
2.30 ms 6.00 ms

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

Test case 1	6 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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