

Experiment 5.1.2

Roots of an experiment

Algorithm:

Step 1: Start

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

Step 3: Calculate $\text{total} = a + b + c + d$

Step 4: Print total

Step 5: Calculate $\text{per} = (\text{total} / 400) * 100$

Step 6: Print per rounded to two decimal places

Step 7: If $\text{per} > 75$

 Print "Distinction"

Step 8: Else if $\text{per} \geq 60$ and $\text{per} \leq 75$

 Print "First Division"

Step 9: Else if $\text{per} \geq 50$ and $\text{per} < 60$

 Print "Second Division"

Step 10: Else if $\text{per} \geq 40$ and $\text{per} < 50$

 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")

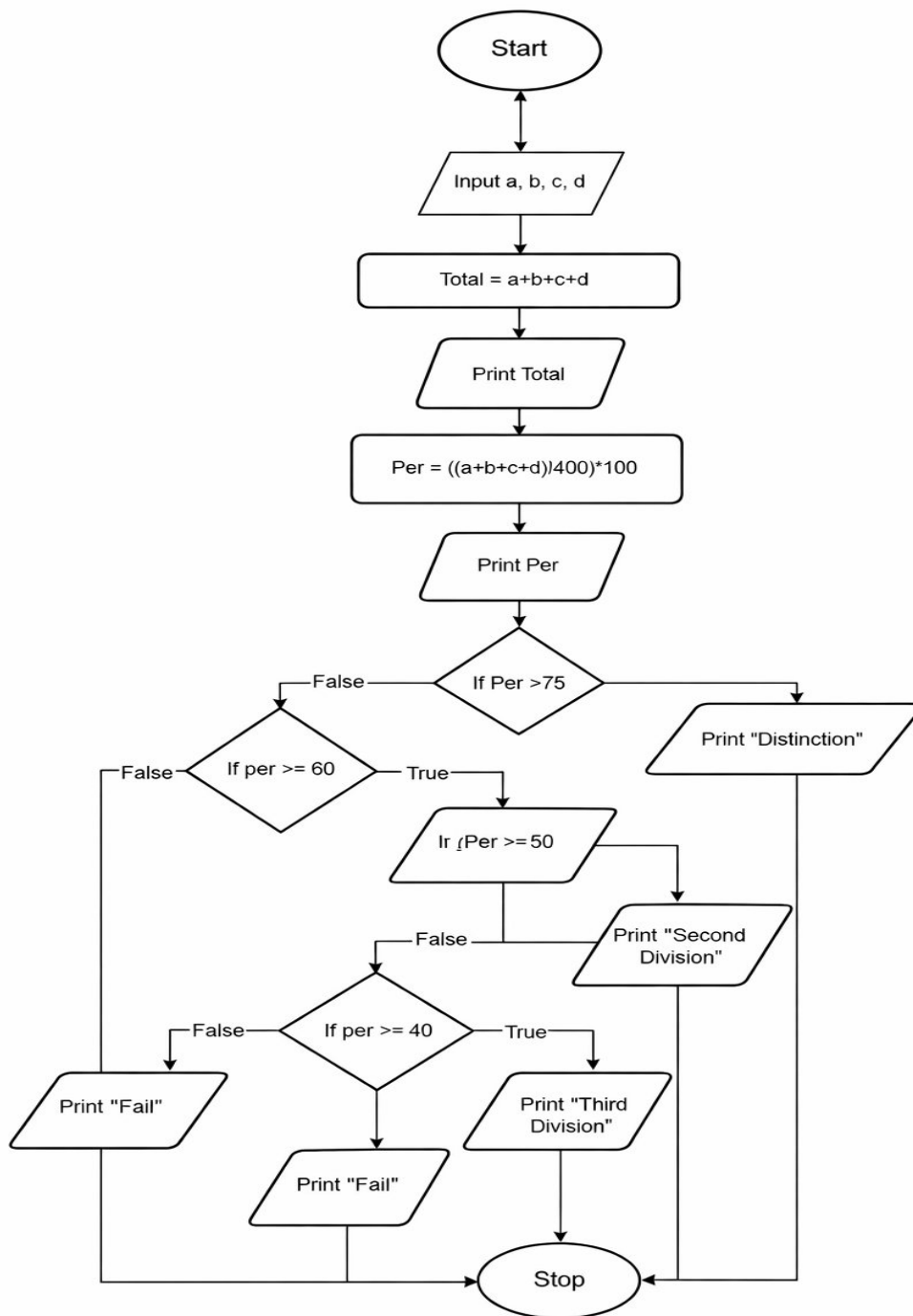
elif per>=40 and per<=50:

    print("Third Division")

else:

    print("Fail")
```

FlowChart:



5.1.2. Student Grade Based on Aggregate

07:19

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

studentG...

Submit

```
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
2.30 msMaximum time
0.006 s
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

Debug

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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