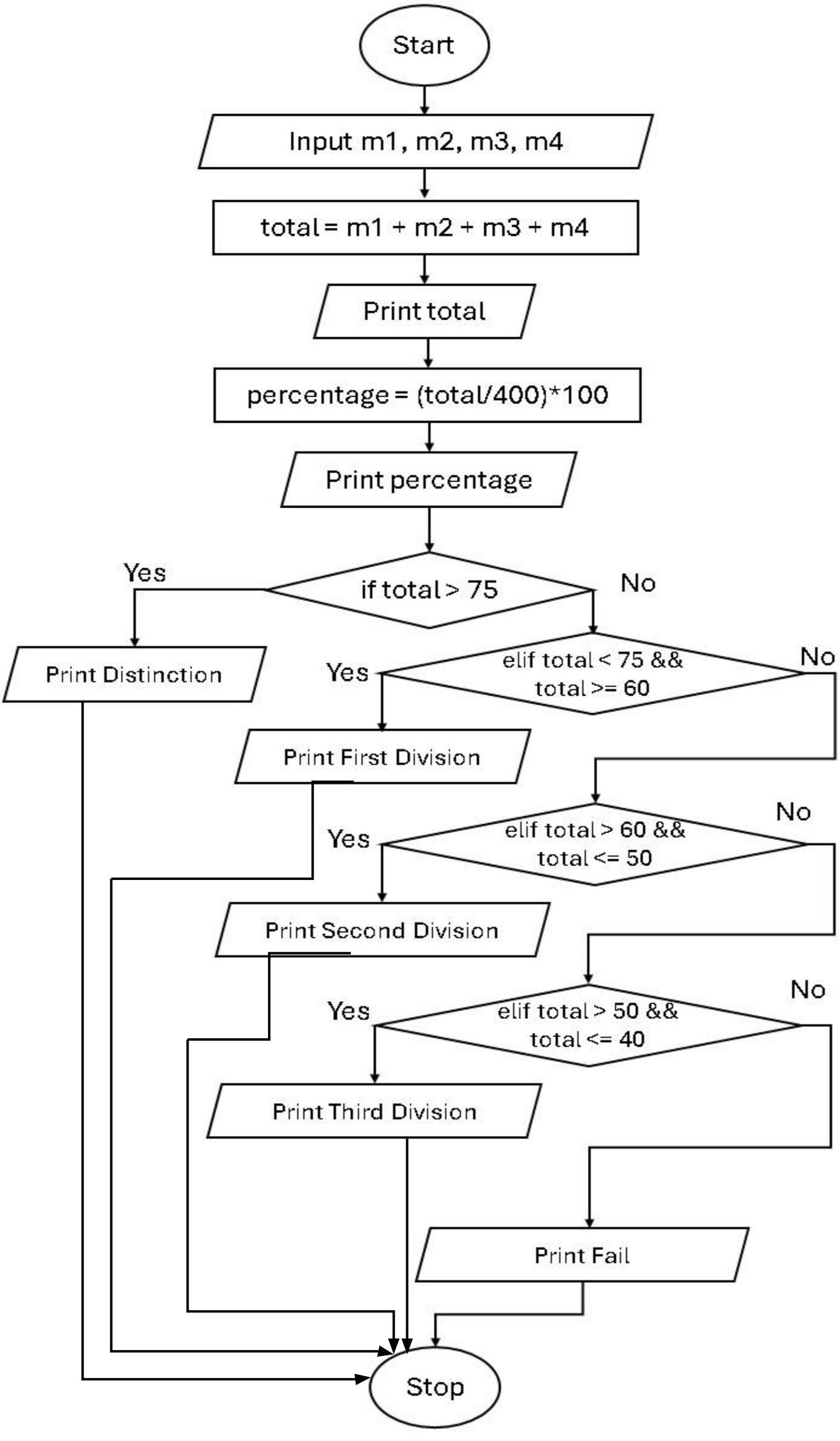
Experiment 5

5.1.2 Student Grade Based on Aggregate

Algorithm :

Step 1 : Start
Step 2 : Input m1, m2, m3, m4
Step 3 : Calculate
total = m1 + m2 + m3 + m4
Step 4 : Print total
Step 5 : Calculate
percentage = (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


Start
Input m1, m2, m3, m4
total = m1 + m2 + m3 + m4
Print total
percentage = (total/400)*100
Print percentage
if total > 75
Yes
No
Print Distinction
elif total < 75 && total >= 60
Yes
No
Print First Division
elif total > 60 && total <= 50
Yes
No
Print Second Division
elif total > 50 && total <= 40
Yes
No
Print Third Division
Print Fail
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

:

5.1.2. Student Grade Based on Aggregate

01:53

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 +

Explorer

studentG...

Submit

Debugger

```
1  marks = list(map(int, input().split()))
2
3  total = sum(marks)
4  aggregate = (total / 400) * 100
5
6  print(total)
7  print(f"{aggregate:.2f}")
8
9  if aggregate >= 75:
10     print("Distinction")
```

Average time 0.004 s 3.60 ms

Maximum time 0.005 s 5.00 ms

5 out of 5 shown test case(s) passed

5 out of 5 hidden test case(s) passed

Test case 1 5 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 3 ms

Terminal Test cases

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