EXPERIMENT- 5

5.1.2 Student Grade based on Aggregate

ALGORITHM

Step 1: Start the program.

Step 2: Input marks of four subjects: m1, m2, m3, m4.

Step 3: Calculate the total marks using:
total = m1 + m2 + m3 + m4

Step 4: Calculate the aggregate percentage using:
aggregate = (total / 400) × 100

Step 5: Check the aggregate percentage:

If aggregate > 75, assign grade = Distinction

Step 6: Else if aggregate ≥ 60 and < 75, assign grade = First Division

Step 7: Else if aggregate ≥ 50 and < 60, assign grade = Second Division

Step 8: Else if aggregate ≥ 40 and < 50, assign grade = Third Division

Step 9: Else, assign grade = Fail

Step 10: Display the total marks.

Step 11: Display the aggregate percentage up to two decimal places.

Step 12: Display the grade of the student.

Step 13: End the program.

PYTHON CODE

```
m1, m2, m3, m4 = map(int, input().split())

total = m1 + m2 + m3 + m4

aggregate = (total / 400) * 100

if aggregate > 75:
    grade = "Distinction"
elif aggregate >= 60:
    grade = "First Division"
elif aggregate >= 50:
    grade = "Second Division"
elif aggregate >= 40:
    grade = "Third Division"
else:
```

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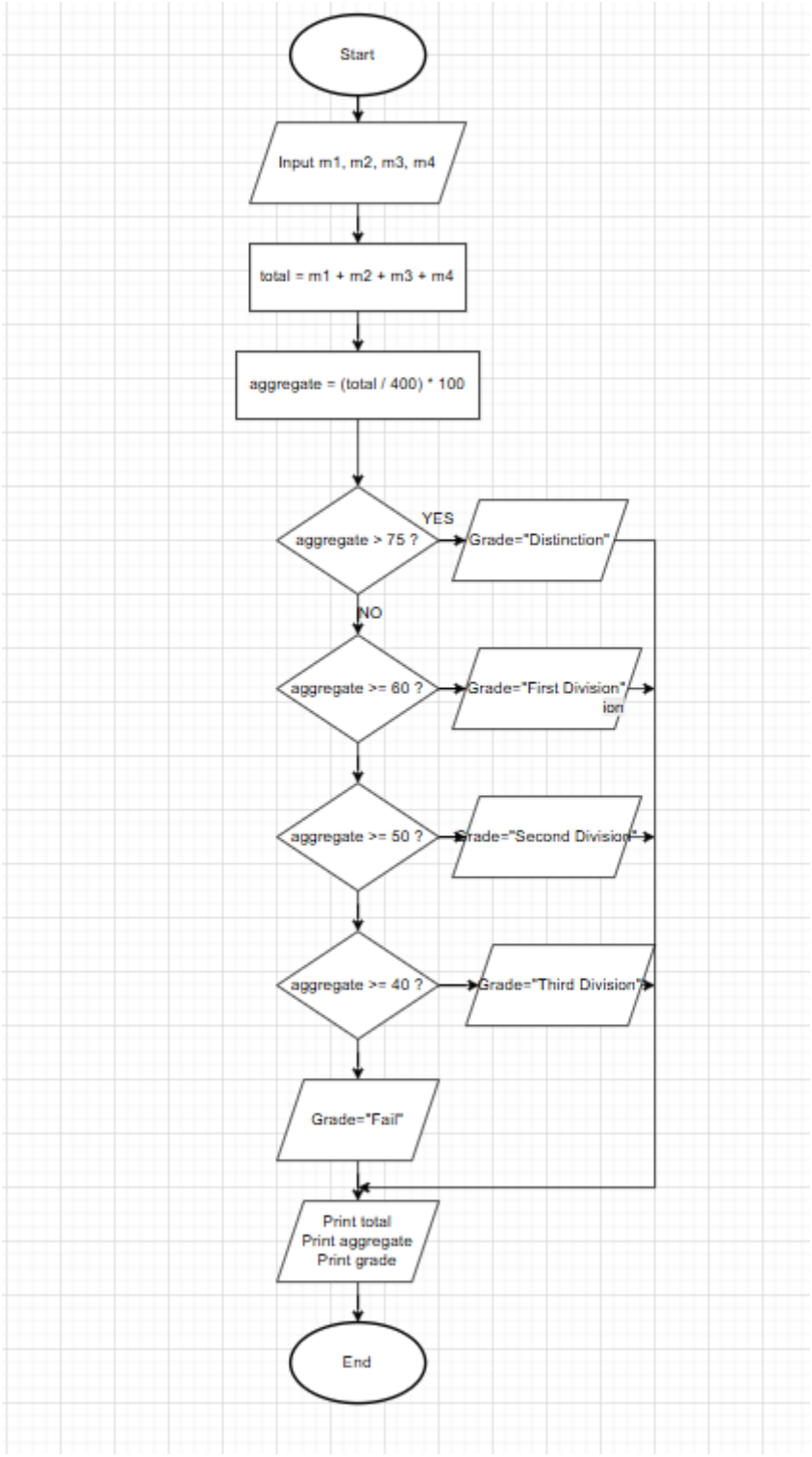
```
    grade = "Fail"
print(total)
print(f"{aggregate:.2f}")
print(grade)
```

FLOWCHART



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EXCECUTION