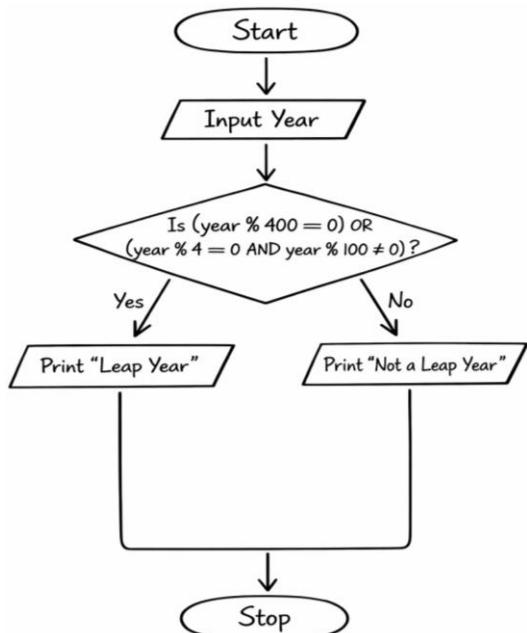


PPS 3.1.1

Algorithm: Find the Largest of Three Numbers

1. Start
2. Input year
3. If $(\text{year} \% 400 == 0)$
→ Print "Leap year"
4. Else if $(\text{year} \% 4 == 0 \text{ AND } \text{year} \% 100 != 0)$
→ Print "Leap year"
5. Else
→ Print "Not a leap year"
6. End

Flowchart:



CodeTantra Home

5.1.1. Leap Year Checker

Write a Python program that prompts the user to enter a year. The program should determine if the year is a leap year or not and print the appropriate message.

Input Format:
A single line contains an integer representing the year.

Output Format:
Print "Leap year" if it is a leap year. Otherwise, print "Not a leap year".

File Explorer

leapYear.py

```
1 year = int(input().strip())
2 if (year % 400 == 0) or (year % 4 == 0 and year % 100 != 0):
3     print("Leap year")
4 else:
5     print("Not a leap year")
```

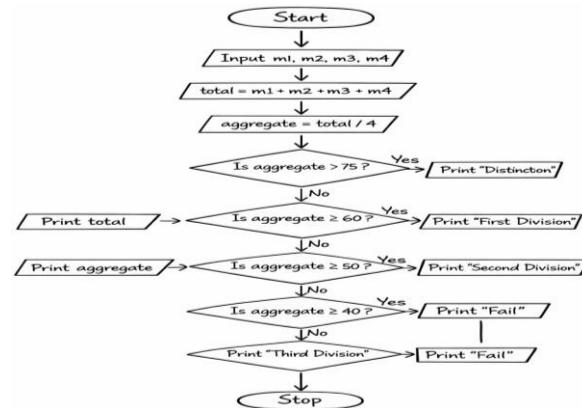
4040
Leap year
== YOUR PROGRAM HAS ENDED ==

PPS 3.1.2

Algorithm

1. **Start**
2. **Input** four subject marks
 - Read m_1, m_2, m_3, m_4
3. **Calculate Total**
 - $\text{total} = m_1 + m_2 + m_3 + m_4$
4. **Calculate Aggregate Percentage**
 - $\text{aggregate} = \text{total} / 4$
5. **Display Total**
6. **Display Aggregate** (up to 2 decimal places)
7. **Check Grade:**
 - If aggregate > 75
→ Print "**Distinction**"
 - Else if aggregate >= 60
→ Print "**First Division**"
 - Else if aggregate >= 50
→ Print "**Second Division**"
 - Else if aggregate >= 40
→ Print "**Third Division**"
 - Else
→ Print "**Fail**"
8. **End**

Flowchart



CODE TANTRA # Home

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5.1.2. Student Grade Based on Aggregate

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.

Explorer studentG...

```

1  # Read four subject marks (space-separated)
2  m1, m2, m3, m4 = map(int, input().split())
3
4  # Calculate total and aggregate percentage
5  total = m1 + m2 + m3 + m4
6  aggregate = total / 4

```

50 60 4 70
184
46.00
Third Division
--- YOUR PROGRAM HAS ENDED ---