

Experiment 5.1.1

Aim:- 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.

Algorithm:-

Step 1: Start

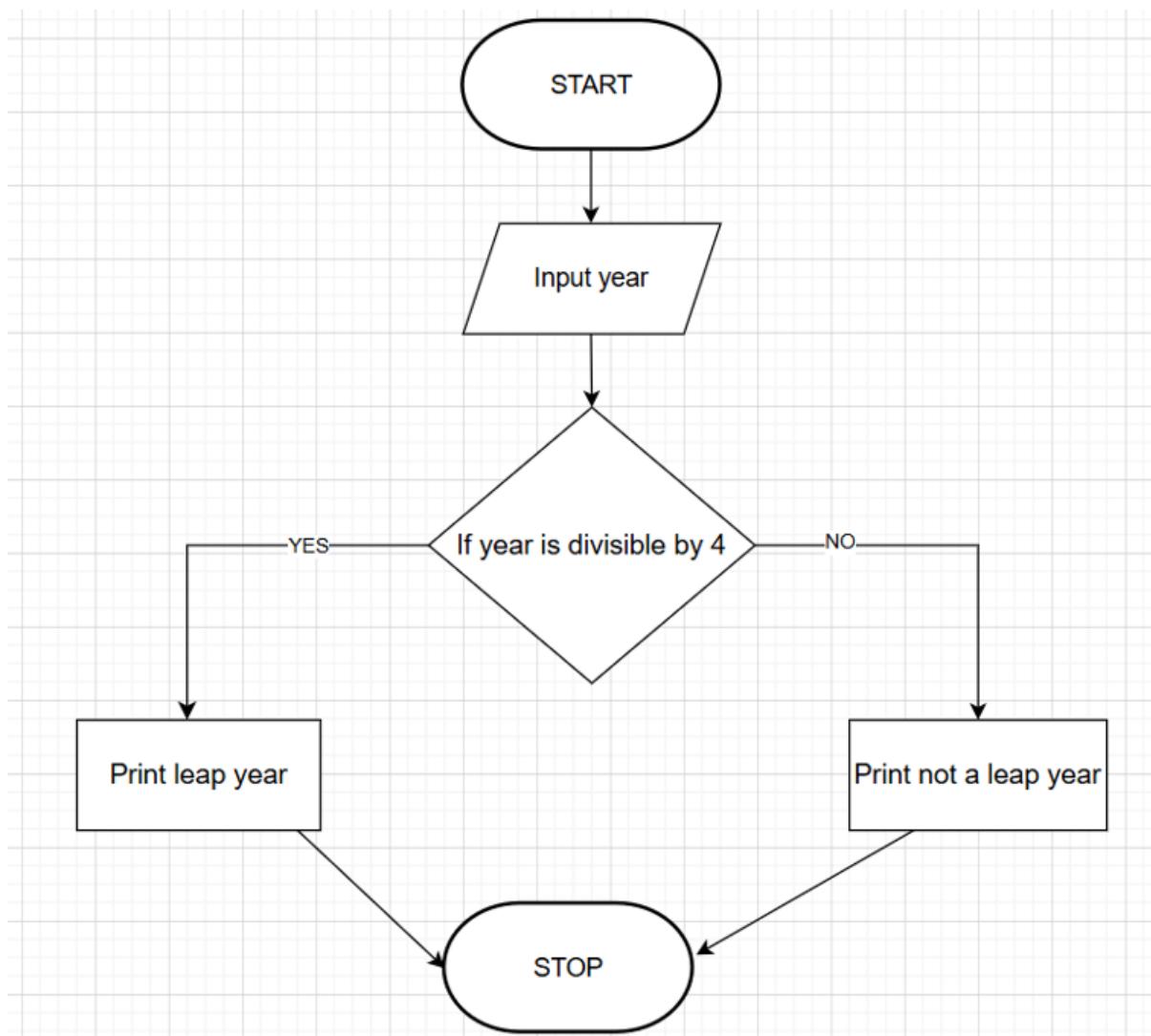
Step 2: Read the year y

Step 3:

- If y is divisible by 400
 Display “**Leap Year**”
- Else if y is divisible by 100
 Display “**Not a Leap Year**”
- Else if y is divisible by 4
 Display “**Leap Year**”
- Else
 Display “**Not a Leap Year**”

Step 4: Stop

Flowchart:-



Code:-

The screenshot shows the CodeTantra IDE interface for a Python project titled "leapYear.py". The code is as follows:

```
1  year = int(input())
2  if (year % 4 == 0):
3      print("Leap year")
4  else:
5      print("Not a leap year")
```

The IDE displays test results for two test cases:

- Test case 1: Expected output 2024, Actual output Leap year. Status: Passed (6 ms)
- Test case 2: Expected output 2024, Actual output Leap year. Status: Passed (3 ms)

Summary statistics:
Average time: 0.004 s
Maximum time: 0.006 s
4.50 ms
6.00 ms

Test case details:
2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Bottom navigation: < Prev, Reset, Submit, Next >