

EXPERIMENT - 5

5.1.1 Leap Year Checker

ALGORITHM

Step 1: Start the program.

Step 2: Input the year from the user.

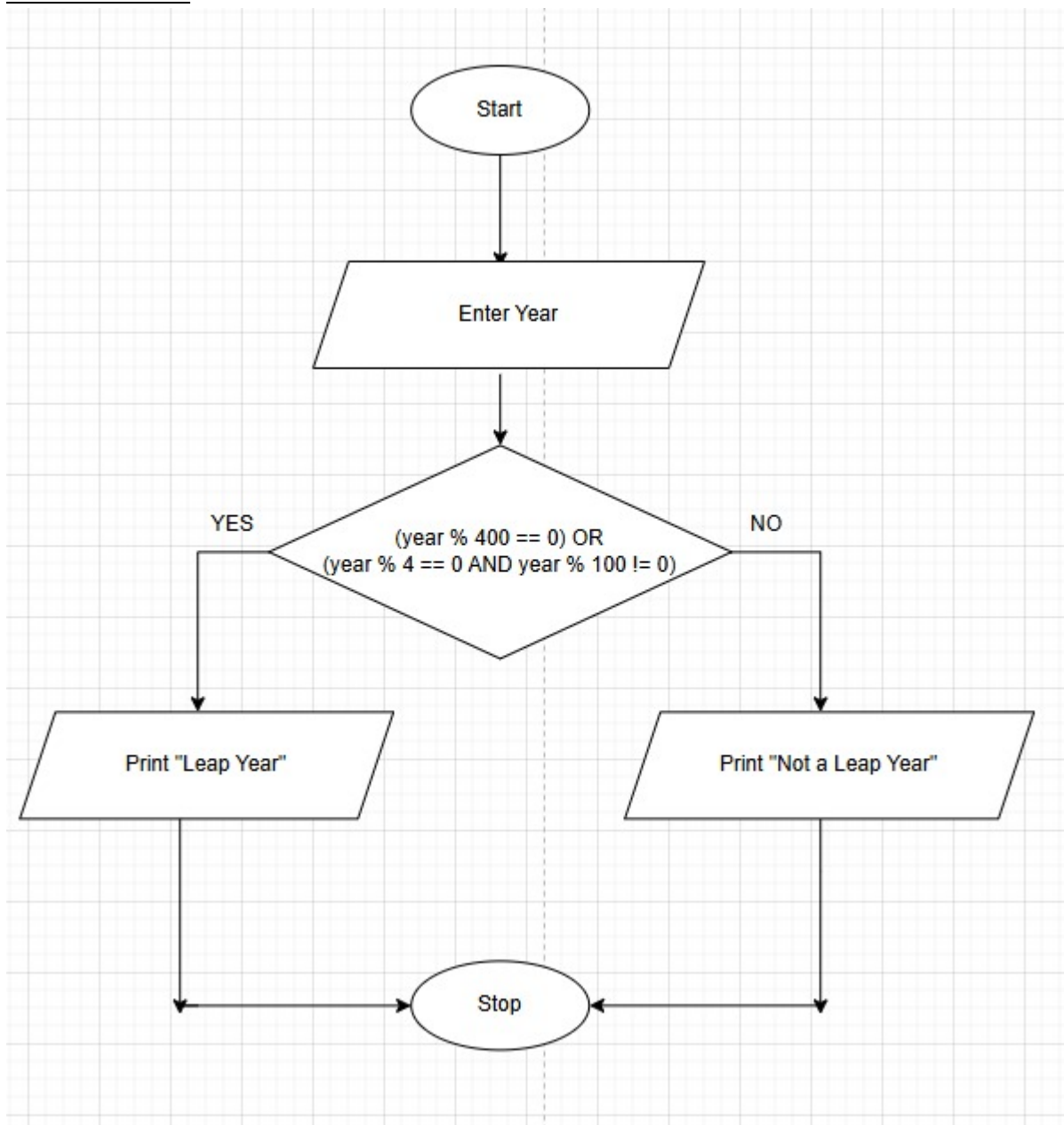
Step 3: Check if $(\text{year} \% 400 == 0)$ OR $(\text{year} \% 4 == 0 \text{ AND } \text{year} \% 100 != 0)$.

Step 4: If the condition is true, print "Leap year".

Step 5: Otherwise, print "Not a leap year".

Step 6: End the program.

FLOWCHART



EXPERIMENT - 5

PYTHON CODE

```
year = int(input())
```

```
if (year % 400 == 0) or (year % 4 == 0 and year % 100 != 0):
```

```
print("Leap year")
```

```
else:
```

```
print("Not a leap year")
```

EXCECUTION

The screenshot displays the CodeTANTRA online IDE interface. On the left, the problem description for '5.1.1. Leap Year Checker' is visible, including input and output formats. The main editor shows the Python code for the leap year checker. The right sidebar displays the execution results, indicating that all test cases passed.

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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".

Sample Test Cases

leapYear.py

```
1 year=int(input())
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")
```

Average time: 0.007 s
Maximum time: 0.008 s
6.79 ms 8.00 ms

2 out of 2 shown test case(s) passed
2 out of 2 hidden test case(s) passed

Test case 1

Expected output: 2024
Actual output: 2024
Leap year: Leap year

Test case 2

Terminal Test cases

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