

EXPERIEMNT - 5

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5.1.1] Leap Year Checker

ALGORITHM

Step 1: Start the program.

Step 2: Input the year from the user.

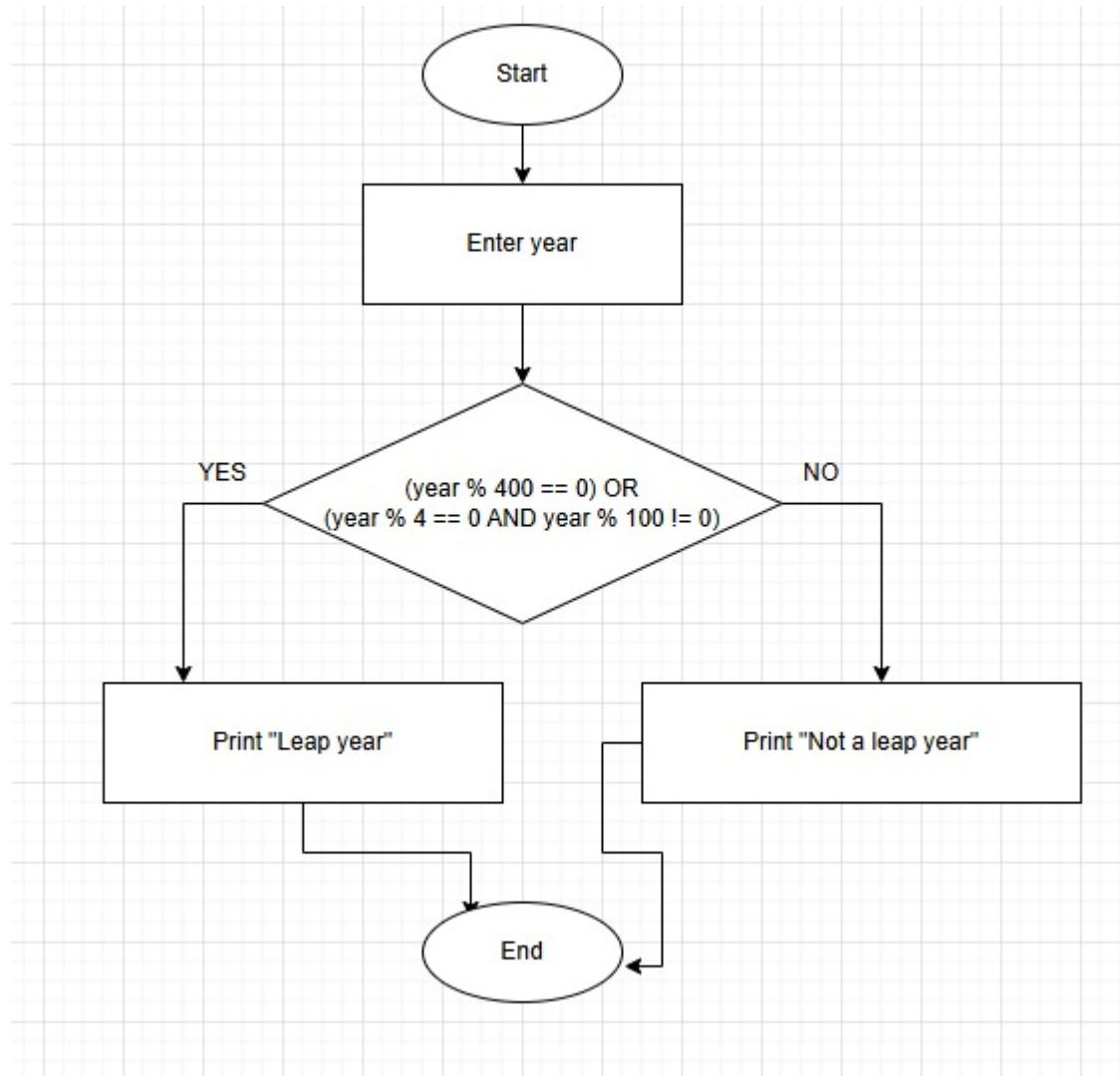
Step 3: Check if $(\text{year} \% 400 == 0)$ OR $(\text{year} \% 4 == 0 \text{ AND } \text{year} \% 100 != 0)$.

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

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

Step 6: End the program.

FLOWCHART



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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")
```

EXECDUTION

The screenshot shows the CodeTantra IDE interface. The title bar says "CODETANTRA" and "Home". The user is logged in as "om.kashikar.batch2025@sitnagpur.siu.edu.in". The main area displays a Python file named "leapYear.py" with the code provided above. Below the code, it shows test results: "2 out of 2 shown test case(s) passed" and "2 out of 2 hidden test case(s) passed". It also shows two test cases: Test case 1 (Expected output: 2024, Actual output: Leap year) and Test case 2 (Expected output: 2024, Actual output: Leap year). At the bottom, there are buttons for "Terminal", "Test cases", and navigation links like "< Prev", "Reset", "Submit", and "Next >".