5.1.1 check leap year

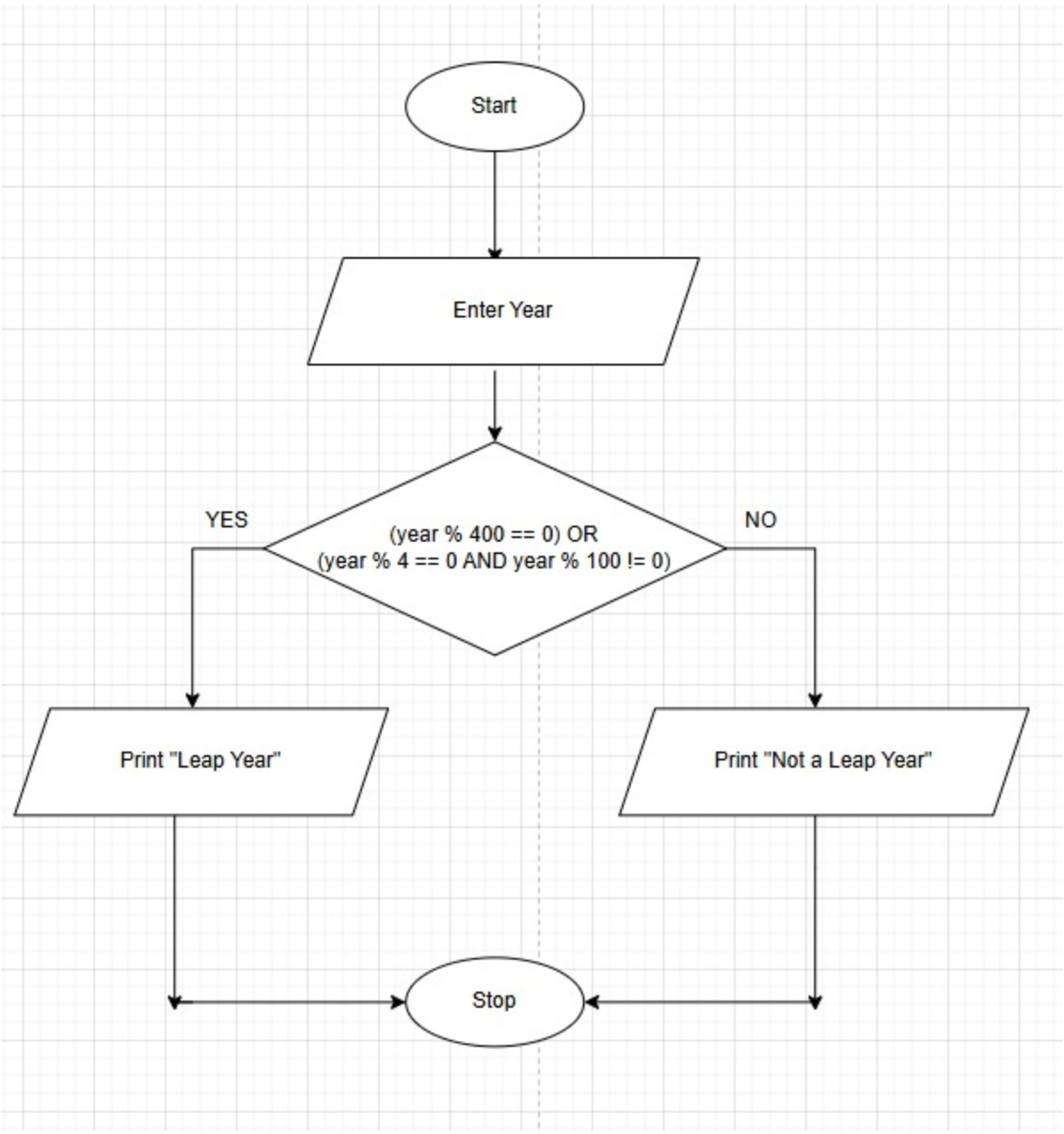
A) Algorithm: Check Leap Year

Step 1: Start
Step 2: Input the year and store it in variable year
Step 3: Check if (year % 400 == 0)
If condition is true, then go to Step 6
Step 4: Else check if (year % 4 == 0 AND year % 100 != 0)
If condition is true, then go to Step 6
Step 5: Else print "Not a leap year" and go to Step 7
Step 6: Print "Leap year"
Step 7: Stop

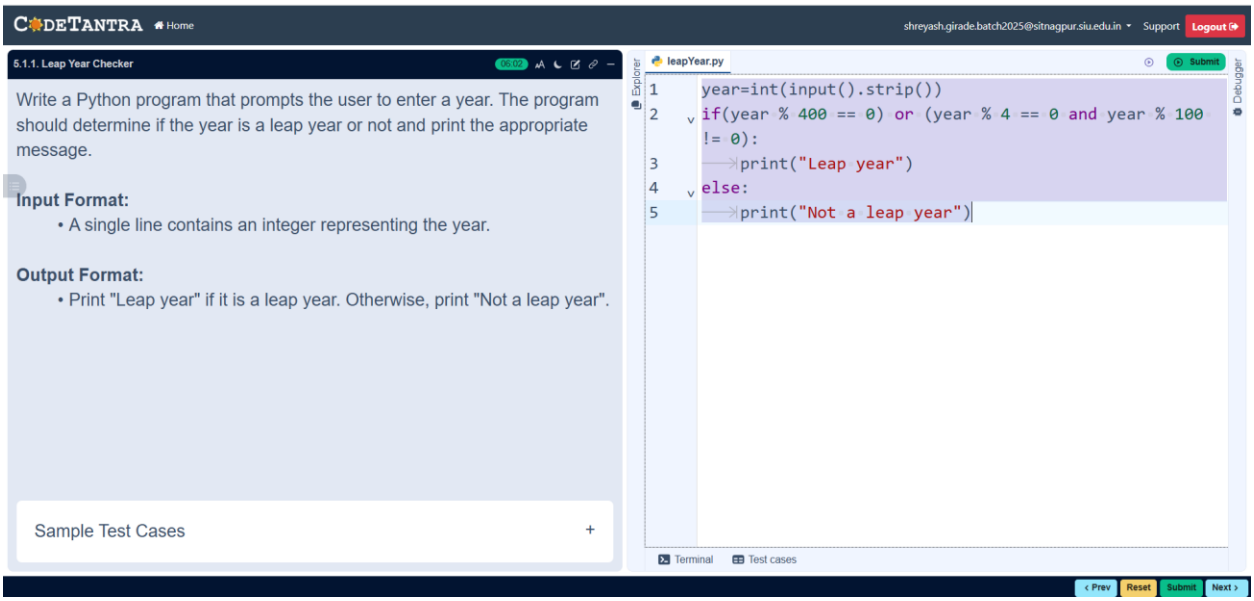
B) Code

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

C) Flowchart


Start
Enter Year
YES
(year % 400 == 0) OR
(year % 4 == 0 AND year % 100 != 0)
NO
Print "Leap Year"
Print "Not a Leap Year"
Stop

D) output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Support
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5.1.1. Leap Year Checker
06:02
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
+
Explorer
leapYear.py
Submit
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")
Debugger
Terminal
Test cases
‹ Prev
Reset
Submit
Next ›