5.1.1 check leap year

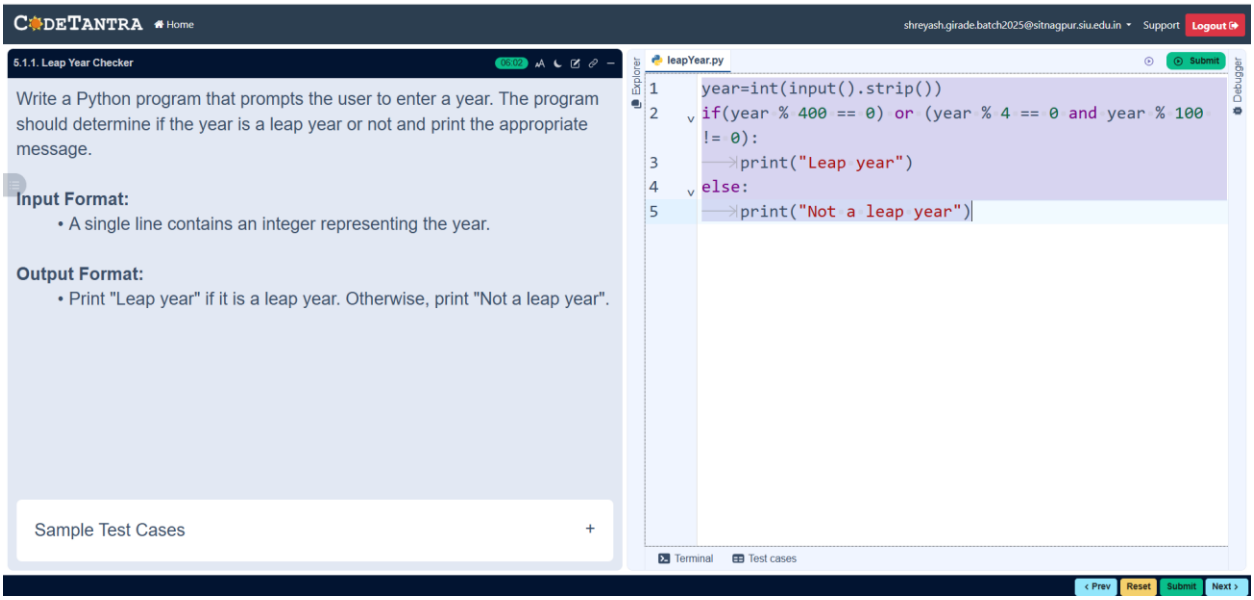
A) Algorithm: Check Leap Year

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

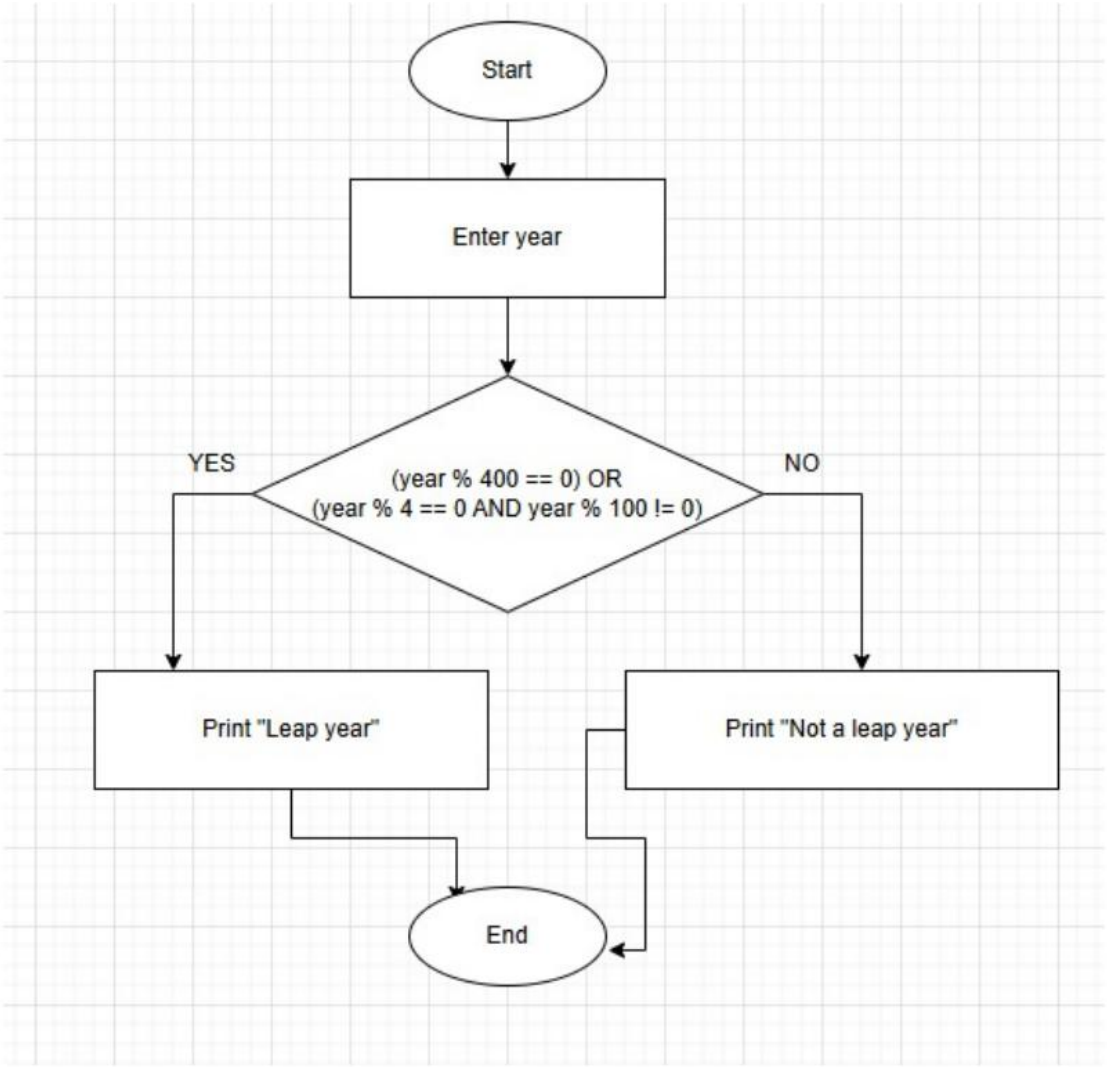
B)code

```
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) output



D) flowchart


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