**Ex. No: 2(b) Roll no:231901002**

**DATE: 28.01.2025**

**Shell Script**

**Aim:**

To write a Shell script to check whether a given year is a leap year or not using conditional statements.



**Algorithm:**

1. Start the script.
2. Prompt the user to enter a year.
3. Read the input year.
4. Check the leap year condition:
   * A year is a leap year if it is divisible by 4 **and** not divisible by 100, **or** divisible by 400.
5. Display whether it is a leap year or not.
6. End the script.



**Program: (leap.sh)**

#!/bin/bash

# Script to check leap year

echo "Enter year:" read year

if [ $((year % 4)) -eq 0 ]; then if [ $((year % 100)) -ne 0 ] || [

$((year % 400)) -eq 0 ]; then echo "Leap year"

else echo "Not a leap year"

fi else

CS23431-OPERATING SYSTEMS R o l l N o : 2 3 1 9 0 1 0 3 3

echo "Not a leap year"

fi



**Sample Input and Output:**

[REC@localhost ~]$ sh leap.sh Enter year:

12

Leap year



**Result:**

The Shell script to test whether the given year is a leap year or not was successfully implemented and executed, and the output was verified.