

The screenshot shows the Apache NetBeans IDE 20 interface. The main window displays a Java source file named `Leap_year.java`. The code implements a program to determine if a given year is a leap year based on specific rules. The output panel shows the execution of the program, where it prompts for a year, receives input, and then prints whether the year is a leap year or not.

```
/*
 * Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license
 * Click nbfs://nbhost/SystemFileSystem/Templates/Project桢子/Java/Classes/class.java to edit this template
 */
package com.mycompany.leap_year;

/**
 * @author 1BSCCD46
 */
import java.util.*;
class Leap_year{
    public static void main(String args[]){
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a year");
        int year = sc.nextInt();
        if(year % 4 == 0 && year %100 != 0){
            System.out.println("The year is a leap year");
        }else if(year % 4 == 0 && year %100 == 0){
            System.out.println("The year is a Century leap year");
        }else if((year % 4 != 0 || year %100 == 0) && year %400 == 0){
            System.out.println("The year is a Century year");
        }else{
            System.out.println("The year is neither a Century year nor a Leap year.");
        }
    }
}
```

Output - Run(Leap_year)

```
Compiling 1 source file with javac [Debug release 25] to target\classes
--- exec:3.5.1exec (default-cli) @ Leap_year ---
Enter a year
2024
Leap year is a leap year
BUILD SUCCESS
Total time: 0.798 s
Finished at: 2024-01-10T16:40:45+05:30
```