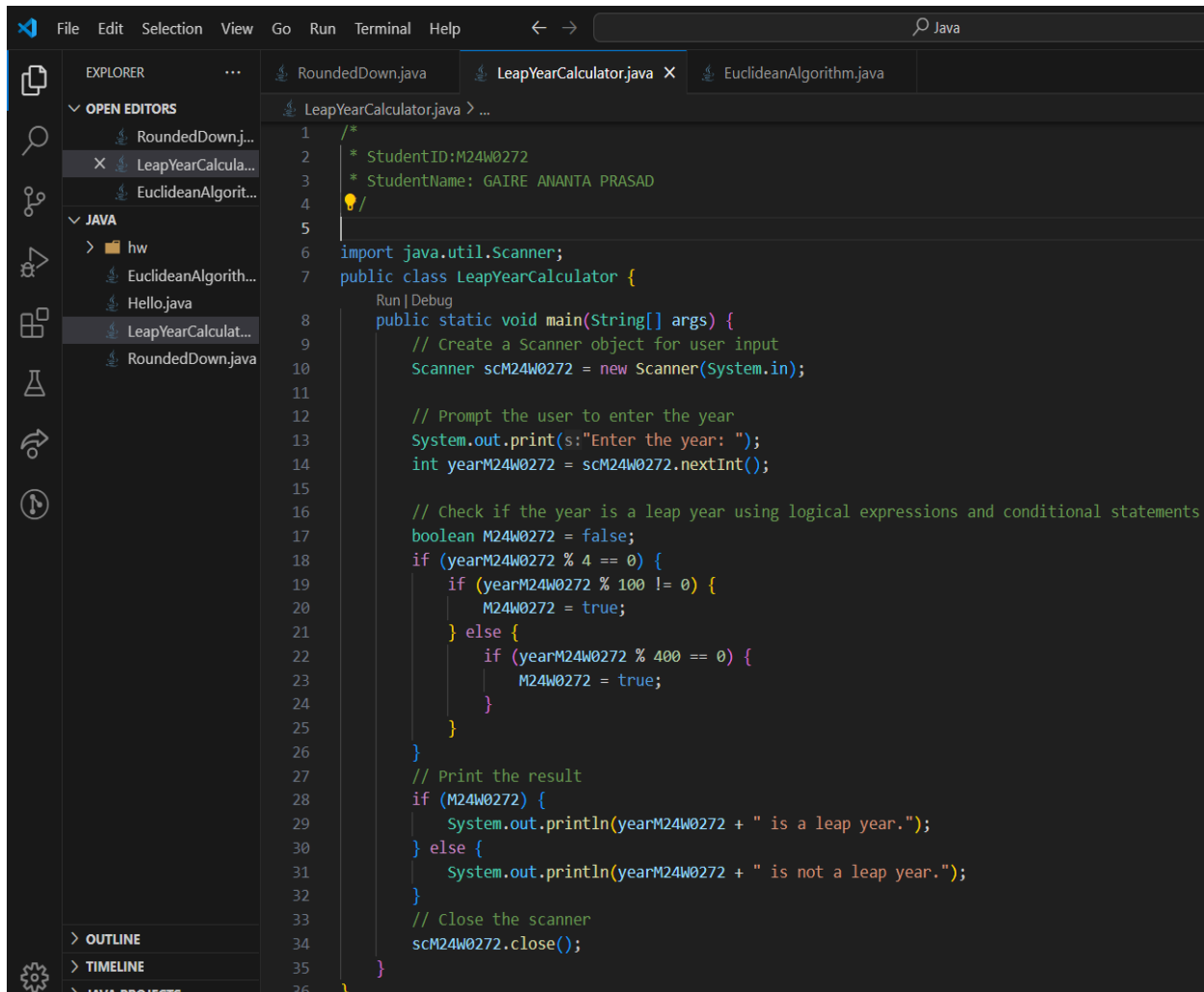


STUDENT NAME: GAIRE ANANTA PRASAD

STUDENT ID: M24W0272

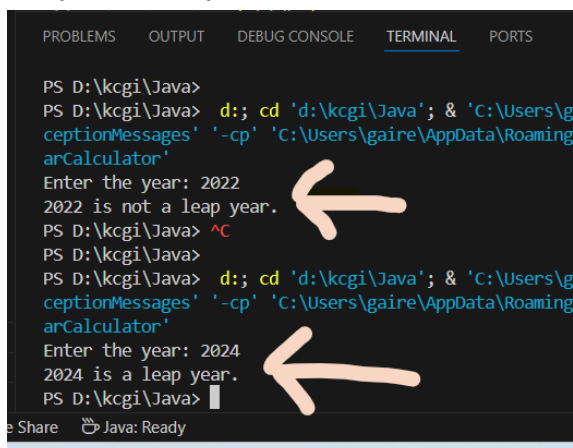
1. Assignment 2("Leap Year Finder")

a. Code for Leap year.



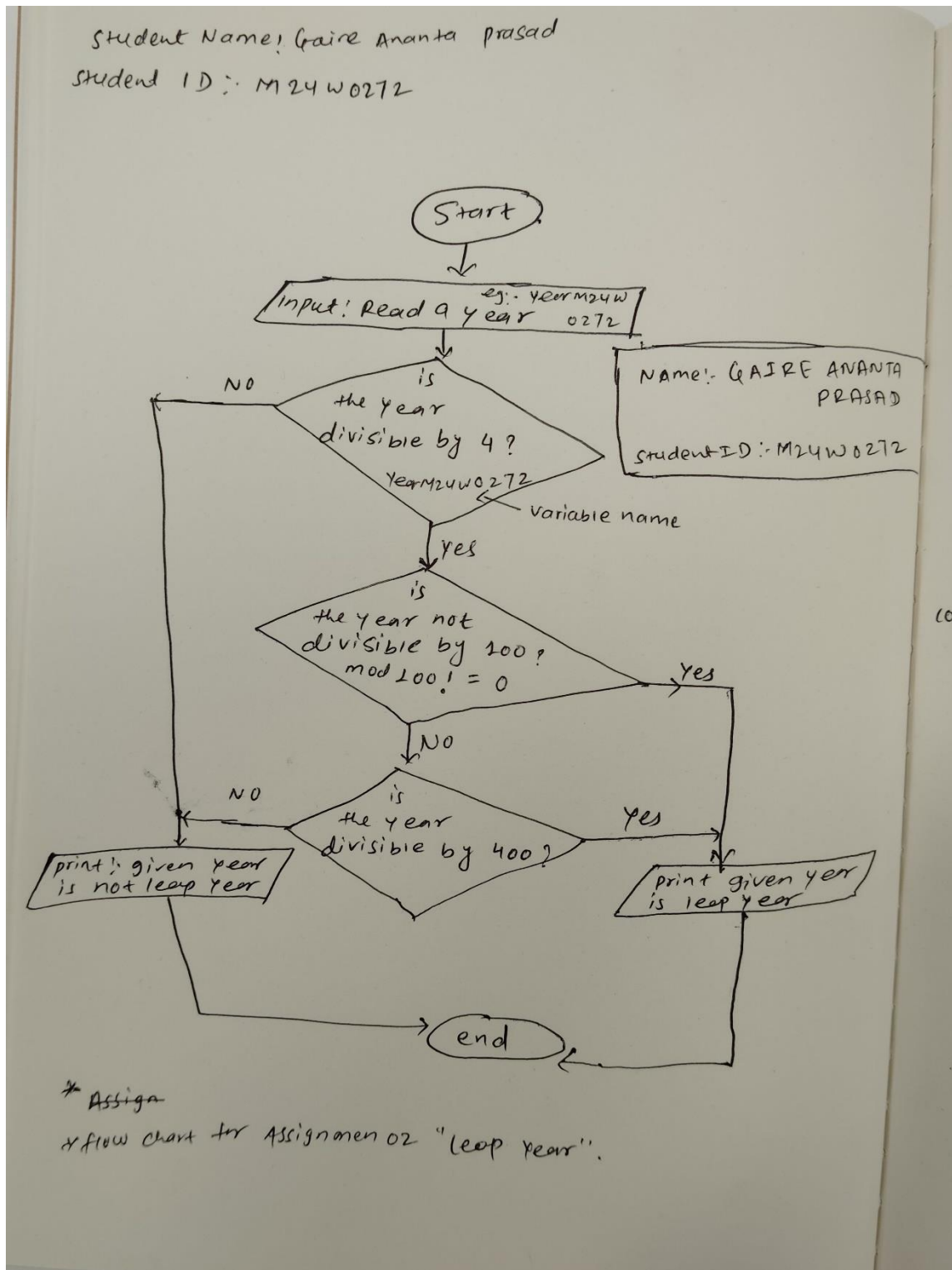
```
1  /*
2   * StudentID:M24W0272
3   * StudentName: GAIRE ANANTA PRASAD
4   */
5
6  import java.util.Scanner;
7  public class LeapYearCalculator {
8      public static void main(String[] args) {
9          // Create a Scanner object for user input
10         Scanner scM24W0272 = new Scanner(System.in);
11
12         // Prompt the user to enter the year
13         System.out.print(s:"Enter the year: ");
14         int yearM24W0272 = scM24W0272.nextInt();
15
16         // Check if the year is a leap year using logical expressions and conditional statements
17         boolean M24W0272 = false;
18         if (yearM24W0272 % 4 == 0) {
19             if (yearM24W0272 % 100 != 0) {
20                 M24W0272 = true;
21             } else {
22                 if (yearM24W0272 % 400 == 0) {
23                     M24W0272 = true;
24                 }
25             }
26         }
27         // Print the result
28         if (M24W0272) {
29             System.out.println(yearM24W0272 + " is a leap year.");
30         } else {
31             System.out.println(yearM24W0272 + " is not a leap year.");
32         }
33         // Close the scanner
34         scM24W0272.close();
35     }
36 }
```

b. Output for Leap Year



```
PS D:\kcg\Java>
PS D:\kcg\Java> d.; cd 'd:\kcg\Java'; & 'C:\Users\gceptionMessages' '-cp' 'C:\Users\gaire\AppData\Roaming\arCalculator'
Enter the year: 2022
2022 is not a leap year.
PS D:\kcg\Java> ^C
PS D:\kcg\Java>
PS D:\kcg\Java> d.; cd 'd:\kcg\Java'; & 'C:\Users\gceptionMessages' '-cp' 'C:\Users\gaire\AppData\Roaming\arCalculator'
Enter the year: 2024
2024 is a leap year.
PS D:\kcg\Java>
```

2. Flow chart for above Program "Leap Year Finder."



3. Pseudocode for above Program "Leap Year Finder."

Student Name:- GAIRE ANANTA PRASAD
Student ID:- M24W0272

Start:- Initialize boolean variable M24W0272

INPUT:- Input the year from the user

COMPUTE:- IF (Year is divisible by 4)

 If (Year is not divisible by 100)

 Set M24W0272 to true

 ELSE

 If Year is divisible by 400

 Set M24W0272 to true

GAIRE ANANTA P
M24W0272

COMPUTE:-

 IF M24W0272 is true

 print:- The ~~leap~~ year is leap year

 ELSE:- The year is not leap year

Close the scanner

END:

* Pseudocode for Assignment 02 "Leap Year"