A. Buka netbeans di laptop masing-masing, kemudian copy dan paste source code dibawah.

B. Jalankan programnya dan amati outputnya saat *int year = 1900*, kemudian ubah nilai variabelnya menjadi *2020* dan jalankan kembali programnya.

C. Jawab pertanyaan berikut:
1) Tulis analisa sedetail mungkin kenapa bisa menghasilkan output tersebut saat:
   int year = 1900; dan *int year = 2020*;
2) Buatlah flowchart dari program tersebut (cantumkan *int year = 1900*)

```java
public class Main {

  public static void main(String[] args) {

    // year to be checked
    int year = 1900;
    boolean leap = false;

    // if the year is divided by 4
    if (year % 4 == 0) {

      // if the year is century
      if (year % 100 == 0) {

        // if year is divided by 400
        // then it is a leap year
        if (year % 400 == 0)
          leap = true;
        else
          leap = false;
      }

      // if the year is not century
      else
        leap = true;
    }

    else
      leap = false;

    if (leap)
      System.out.println(year + " is a leap year.");
    else
      System.out.println(year + " is not a leap year.");
  }
}
```