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Experiment No.	3

PROBLEM STATEMENT:	A person is planting a Bomb in an enemy area. He is deciding the date and time of the explosion beforehand. Now calculate how many days are left for the explosion.
THEORY:	The java.util.Date class is a built-in class in Java that represents a specific instant in time with millisecond precision. It provides several methods for working with dates and times, such as comparing dates, converting dates to strings, and calculating the difference between two dates.  However, there are some quirks about the year and month handling in the java.util.Date class that are worth noting:  1. Year: The year in the java.util.Date class starts from 1900. For example, to represent the year 2023, you need to pass 123 as the year parameter while creating the Date object. This means that 0 corresponds to the year 1900, 1 corresponds to 1901, and so on.  2. Month: The month in the java.util.Date class is 0-based, which means that January is represented by 0, February by 1, and so on. This can lead to some confusion and errors, as programmers are used to thinking of months starting from 1.  It's also worth noting that the java.util.Date class has some limitations and is considered to be outdated. It doesn't handle time zones or daylight saving time, and some of its methods have been deprecated in favor of the newer java.time package introduced in Java 8. If you're working with dates and times in Java, it's recommended to use the java.time package instead.

## **PROGRAM:**

```
public class Bomb {
   public static void main(String[] args) {
       int exp day, exp month, exp year;
       System.out.println("Enter Date of explosion (as day,
month and year, seperated by spaces/newlines)");
       Scanner sc = new Scanner(System.in);
       exp day = sc.nextInt();
       exp_month = sc.nextInt();
       exp year = sc.nextInt();
       Date explosion = new Date(exp year - 1900, exp month
- 1, exp day);
       long current time = current.getTime();
       long exp time = explosion.getTime();
       long ms between dates = exp time - current time;
       long ms in a day = 1000 * 60 * 60 * 24;
        long days between dates = ms between dates /
ms in a day + 1;
       System.out.println("The number of days till the
explosion is: " + days between dates);
```

## **RESULT:**

Enter Date of explosion (as day, month and year, seperated by spaces/newlines) 26 5 2023

The number of days till the explosion is: 34

Process finished with exit code 0

(Current date was 22/4/23)