Program 2

(Print Date of N day number)

Design a program to accept a **Day Number** (between 1 and 366), **Year** (in 4 digits) from the user to generate and display the corresponding date. Also, accept 'N' (1<=N<=100) from the user to compute and display the future date corresponding to 'N' days after the generated date. Display an error message if the value of the day number, year and N are not within the limit or not according to the condition specified. Test your program with the sample data and some random data:

Example 1: INPUT: DAY NUMBER: 255

YEAR: 2018

OUTPUT: DATE: 12TH SEPTEMBER, 2018

DATE AFTER 22 DAYS: 4TH OCTOBER, 2018

EXAMPLE 2: INPUT: DAY NUMBER: 500

YEAR: 2018

DATE AFTER (N DAYS): 33

OUTPUT: DAY NUMBER OUT OF RANGE

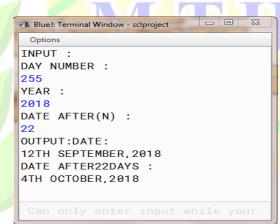
Solution:

```
import java.util.*;
class Date
  public static void main(String args[])
    Scanner sc=new Scanner(System.in);
    int year,day,c=0,q=0,N,D,M,YEAR,current day=0,mnth=0;
    String tag;
    int days[]={0,31,28,31,30,31,30,31,30,31,30,31};
month[]={"","JANUARY","FEBRUARY","MARCH","APRIL","MAY","JUNE","JULY","AUGUST","SEPTEMBER","O
CTOBER","NOVENBER","DECEMBER"};
    System.out.println("INPUT:");
    System.out.println("DAY NUMBER:");
    day=sc.nextInt();
    System.out.println("YEAR:");
    year=sc.nextInt();
    System.out.println("DATE AFTER(N):");
    N=sc.nextInt();
```

```
YEAR=year;
if(day<1||day>366)
System.out.println("OUTPUT:DAY NUMBER OUT OF RANGE");
else if(N<1||N>100)
System.out.println("OUTPUT:DATE AFTER(N DAYS) OUT OF RANGE");
else
 if(YEAR\%4==0)
 days[2]=29;
 else
 days[2]=28;
 while(current day<day)
   if(mnth==12)
     mnth=0;
     YEAR++;
     if(YEAR%4==0)
     days[2]=29;
     else
     days[2]=28;
   current_day=current_day+days[++mnth];
 q=current_day-days[mnth];
 current day=day-q;
 System.out.println("OUTPUT:DATE: ");
 if(current day==1||current day==21||current day==31)
 System.out.println(current day+"ST "+month[mnth]+","+YEAR);
 else if(current day==2||current day==22)
 System.out.println(current_day+"ND "+month[mnth]+","+YEAR);
 else if(current day==3||current day==23)
 System.out.println(current_day+"RD "+month[mnth]+","+YEAR);
 else
 System.out.println(current day+"TH "+month[mnth]+","+YEAR);
 M=mnth;
 D=current day;
 YEAR=year;
 c=0;
 while(c<N)
   C++;
   D++;
                  Dios Es Grande
   if(D>days[M])
     D=1;
     M++;
   if(M>12)
     M=1;
```

```
YEAR++;
          if(YEAR%4==0)
          days[2]=29;
          else
          days[2]=28;
        }
      }
      q=D%10;
      if(q==1)
      tag="ST";
      else if(q==2)
      tag="ND";
      else if(q==3)
      tag="RD";
      else
      tag="TH";
      System.out.println("DATE AFTER"+N+"DAYS:");
      System.out.println(D+tag+" "+month[M]+","+YEAR);
    }
}
```

Output:



Variable Description Table

<u>Variable</u>	<u>Datatype</u>	<u>Purpose</u>
year	int	Year to be inputed
day	int	Day number
c q	int	Required variables
N D M	int	Number o <mark>f days</mark>
YEAR	int E	Year to be checked
current_day	I I I I I I I I I I I I I I I I I I I	Current date
mnth	int	Month
tag	String	Tag after date