**Question:11** Write a Program in Java to input a Date in ddmmyyyy 8-digit format and print it in:
1) dd/mm/yyyy format
2) dd, month name, yyyy format

**Input:** 01011943
**Output:**
01/10/1943
1 January, 1943

**Solution:**

```java
import java.io.*;
class Date_DDMMYY
{
    public static void main(String args[])throws IOException
    {
        BufferedReader br=new BufferedReader(new InputStreamReader(System.in));
        int l, y, d, m;
        String dd, mm, yy;

        //array storing the maximum days of every month
        int maxdays[]={0,31,28,31,30,31,30,31,31,30,31,30,31};

        //array storing the month names
        String month[]={ "", "January", "February", "March", "April", "May", "June", "July", "August",
                "September", "October", "November", "December" };

        System.out.print("Enter any date in 8 digits (ddmmyyyy) format: ");
        String date = br.readLine(); //inputting the date in String format

        l = date.length(); //finding number of digits in the given input

        if(l==8) //performing the task only when number of digits is 8
        {
            dd = date.substring(0,2); //extracting the day in String format
            mm = date.substring(2,4); //extracting the month in String format
            yy = date.substring(4); //extracting the year in String format
            d = Integer.parseInt(dd); //day in Integer format
            m = Integer.parseInt(mm); //month in Integer format
            y = Integer.parseInt(yy); //year in Integer format

            if((y%400==0) || ((y%100!=0)&&(y%4==0))) // condition for leap year
            {
                maxdays[2]=29;
            }
```

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```
/* checking whether the day, month and year are within acceptable range
i.e. there cannot be an input like 35012013 because 35/01/2013 is unacceptable*/

if(m<0 || m>12 || d<0 || d>maxdays[m] || y<0 || y>9999) // Performing Date Validation
{
System.out.println("The day, month or year are outside acceptable limit");
}

else
{
    /* First Part */
    System.out.println("Date in dd/mm/yyyy format = "+dd+"/"+mm+"/"+yy);

    /* Second Part */
    System.out.print("Date in dd, month name, yyyy format = "+dd+" "+month[m]+", "+yy);
}
}

else
    System.out.println("Wrong Input");
}
}
```

**Output:**
1) Enter any date in 8 digits (ddmmyyyy) format: 02052013
Date in dd/mm/yyyy format = 02/05/2013
Date in dd, month name, yyyy format = 02 May, 2013
2) Enter any date in 8 digits (ddmmyyyy) format: 12111963
Date in dd/mm/yyyy format = 12/11/1963
Date in dd, month name, yyyy format = 12 November, 1963
3) Enter any date in 8 digits (ddmmyyyy) format: 252013
Wrong Input
4) Enter any date in 8 digits (ddmmyyyy) format: 29022013
The day, month or year are outside acceptable limit