

**Question :2** Write a program to input long integer data not less than 5 digits. Your program should reject it if data is less than 5 digits and ask to re-enter. In the input, last four digits will be taken as year(the validity of the year should be checked that the year should be within 1900 to 3000 otherwise the computer should reject the input and ask to re-enter data) and remaining digits as total number of days. Your program should display the output as actual data(using number of days extracted) followed by month name and actual year.

Sample Input : Enter a date value not less than 5 digits  
272008

Sample Output:The required date as per the entered value:  
27 January 2008

Sample Input :Enter a date value not less than 5 digits  
802005

Sample Output The required date as per the entered value:  
21 March 2005

Sample Input :Enter a date value not less than 5 digits  
5002019

Sample Output The required date as per the entered value:  
13 May 2020

Sample Input Enter a date value not less than 5 digits  
2008

Sample Output Invalid Date!!...Re-enter value not less than 5 digits

**Solution :**

```
import java.util.*;
class Date_1
{
    public static void main()
    {
        Scanner sc=new Scanner(System.in);
        String month[]={"","January","February","March","April","May","June","July","August",
            "September","October","November","December"};
        int dm[]={0,31,28,31,30,31,30,31,31,30,31,30,31};
        int i,j,d,c=0,days,y,date;
        System.out.println("Enter a date value not less than 5 digits");
        d=sc.nextInt();
        while(d<10000 || d%10000<1900 || d%10000>3000)
        {
            System.out.println("Invalid Date!!...Re-enter value not less than 5 digits");
            d=sc.nextInt();
        }
        2008
        y=d%10000; // to find out year
        27 days=d/10000; // to calculate the number of days
        if(days>365)
```

$$\begin{array}{r} 272008 \div 10000 \\ 10000 \overline{) 272008} \\ \underline{270000} \phantom{00} \\ 2008 \end{array}$$

```

    {
        while(days>365)
        {
            y++;
            if(y%4==0)
            {
                dm[2]=29; // to check leap year
                days=days-366;
            }
            else
            {
                dm[2]=28;
                days=days-365;
            }
        }
    }
    else
    {
        if(y%4==0)
            dm[2]=29;
        else
            dm[2]=28;
    }
    for(i=1;i<=12;i++)
    {
        c=c+dm[i];
        if(c>days)
            break;
    } //end of i loop
    c=0;
    for(j=1;j<i;j++)
    {
        c=c+dm[j];
    } //end of j loop
    date=days-c;
    System.out.println("The required date as per the entered value:");
    if(date==0)
        System.out.println(dm[i-1]+" "+month[i-1]+" "+y);
    else
        System.out.println(date+" "+month[i]+" "+y);
}
}

```

**Question 3:** Design a program which accepts your date of birth in DD/MM/YYYY format. Check Whether the date is valid or not. If it is valid , display "Valid Date".