

To convert the decimal number to equivalent binary number and octal number.

Code:

```
import static org.junit.Assert.assertTrue;
class binary {
    public static void main (String [] args) {
        Scanner scanner = new Scanner (System.in);
        int decimal = scanner.nextInt();
        String binary = Integer.toBinaryString (decimal);
        System.out.println ("Binary is " + binary);
        System.out.println (Integer.toOctalString
            (decimal));
        Assert.assertTrue ((decimal == 14) && (binary.equals ("1110")));
    }
}
```

Output:

Input: 14 Expected output: 14 Binary is 1110

octal 16.

Remark: successful

May be it is working for binary & octal input.

1. Program statement

wrote a Java program to convert a Given
Number of Days in terms of years, weeks & Day

```
import java.util.Scanner;
```

public class year

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public static void main (String args[]).

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int m, year, week, day:

Scanner is now Scanner (Systematic).

```
System.out.println("Enter the number of days");
```

$m = \text{g_nextIn} + 1$,

$$\text{Year} = m / 365 :$$

assert true (1 == year)

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System.out.println ("No of years: " + year);

week = מ' (ז)

मृत्युं त

System.out.println("No. of classes.

day \approx m)

```
System.out.println("No. of steps: " + s);
```

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"C.P." is written on the other side of the card.

(Opis - 01.51) 2013-07-09 22.0

is to find the factorial of n? The output value
should verify using white box testing?

AIM:

```

import java.util.Scanner;
class factorial {
    public static void main (String args) {
        int i,j,pr=1;
        try {
            Scanner s=new Scanner (System.in);
            System.out.println ("Enter the number to");
            System.out.println ("find the factorial");
            int n=s.nextInt();
            if (n<0)
                System.out.println ("Invaled");
            else if (n==0)
                System.out.println ("1");
            else
                for (i=n; i>0; i--)
                    pr=pr*i;
            System.out.println ("The answer is: "+pr);
            assert true (120==pr);
        }
        catch (Exception e)
        {
            System.out.println ("Invaled");
        }
    }
}

```

Exp No: 19.

Find the year of the given date is leap year or not.

Code:

```
import java.util.Scanner;
class leapYear
{
    public static void main (String [] args)
    {
        int i=0;
        System.out.println ("Enter the date (month/year)");
        Scanner s=new Scanner (System.in);
        String re=s.nextLine();
        String [] r=re.split ("/",3);
        int k=Integer.parseInt (r[2]);
        assert true (k<=2000);
        if (k%4==0)
            System.out.println ("It is an leap year");
        else
            System.out.println ("It is not a leap year");
    }
}
```

(class name is leapYear and method
name is main (method) and variable

Exp No: 20
write a program to find the square number.
cube of the given decimal number.

code:

```
import java.util.*;
class CubeSquare
{
    public static void main (String args[])
    {
        try
        {
            Scanner s = new Scanner (System.in);
            System.out.print ("Enter a number");
            double n = s.nextDouble();
            double a = 0, b = 0;
            a = n * n;
            b = n * n * n;
            System.out.println ("The square of number = " + a);
            System.out.println ("The cube of number = " + b);
        }
        catch (Exception e)
        {
            System.out.println ("Invalid");
        }
        assertEquals (expected output == a);
        assertEquals (expected output == b);
    }
}
```