15:06

• WRITE APROGRAM TO FIND WHETHER THE NUMBER IS SPECIAL NUMBER OR NOT

```
    SPECIAL NUMBER IS SUM OF THE FACTORIAL OF EACH NUMBER WHICH IS EQUAL TO THE NUMBER (145)

           145
           1! = 1
                                           120+24+1 = 145
           4! = 24
           5! = 120
class Test1
      public static void main(String[] args)
           int n = 15;
           int num;
           num = n;
           int sum = 0;
           int r;
           do
           {
                 r = num%10;
                 int fact = 1;
                 for (int i =1; i<=r; i++)
                         fact = fact*i;
                 sum = sum + fact;
                 num = num/10;
           while (num > 0);
           if (n == sum)
                 System.out.println("Special NUmber");
           }
           else
           {
                 System.out.println("not a Special NUmber");
           }
      }
}
```

• WRITE A PROGRAM TO FIND THE LCM OF TWO NUMBERS

```
a*b = lcm*gcd

Lcm = a*b/gcd

class Test1
{
    public static void main(String[] args)
    {
        int a = 50;
        int b = 60;

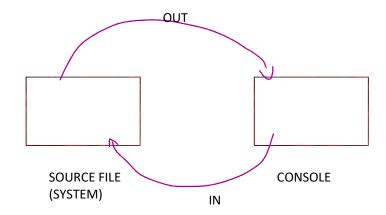
        int g = 0;
        int i = 1;

        do
        {
            if (a%i == 0 && b%i == 0)
            {
                 g = i;
            }
            i++;
        }
        while (i<=50);

        int lcm = (a*b)/g;</pre>
```

```
System.out.println(lcm); } }
```

SCANNER CLASSES

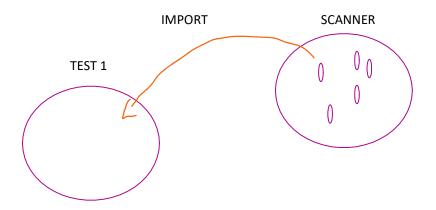


WHY ARE SCANNER CLASSES USED?

SCANNER CLASSES ARE USED TO READ THE VALUES FROM THE USER TO USE DATA INSIDE THE PROGRAM

HOW TO USE SCANNER CLASSES?

- THERE ARE SOME STEPS TO BE FOLLOWED WHEN WE WANT TO USE THE SCANNER CLASSES:
 - 1. FIRST IMPORT THE SCANNER CLASS TO THE PROGRAM IN WHICH WE WANT TO BE USED
 - 2. CREATE AN OBJECT OF SCANNER CLASS AND USE THE SCANNER CLASS OBJECT TO GET ACCESS TO THE FUNCTIONS OF SCANNER CLASS



- Import java.util.Scanner;
- Scanner sc = new Scanner(System.in)

(should always be the first statement) (should be used inside the main method)

Chose based on data types

Methods	Use
Int a = sc.nextInt();	To read the integer
Double d = sc.nextDouble()	To read the double value
String str = sc.next();	To read the string value without any space
String s = sc.nextLine();	To read the String value with space
Char ch = sc.next().charAt(0);	To read the character value
Float f = sc.nextFloat();	To read the float value

```
import java.util.Scanner;

class Test1
{
    public static void main(String[] args)
    {
        Scanner sc = new Scanner(System.in);

        System.out.println("Kindly enter a value");
        int a = sc.nextInt();

        System.out.println("Kindly enter a value");
        int b = sc.nextInt();

        System.out.println("Sum of the given values are :");
        System.out.println(a+b);
    }
}
```