```
//1.WAJP to generate factorial of each digit of the number entered by the user.
import java.util.*;
class DigitFactorial
{
public static void main(String[] args)
  {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number");
        int n=sc.nextInt();

        while(n>0)
        {
                int digit=n%10;
            int f=1;
                int i=1;
                while(i<=digit)
                {
                        f=f*i;
                        i++;
                }
                System.out.println(f);
                n=n/10;
        }
   }
}


//2.WAJP to print sum of factorial of each digit of the number entered.
import java.util.*;
class SumDigitFactorial
{
public static void main(String[] args)
 {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number");
        int n=sc.nextInt();
        int sum=0;
        while(n>0)
        {
                int digit=n%10;
            int f=1;
                int i=1;

                while(i<=digit)
                {
                        f=f*i;
                        i++;
                }
                System.out.println(f);
                sum=sum+f;
```

```
                n=n/10;
        }
        System.out.println(sum);
  }
}
```

```
//3.WAJP to check whether the number is Strong or not(234->2!+3!+4!=32 so 234 not a
strong no.and 145->1!+4!+5!=145 so strong no
import java.util.*;
class CheckStrong
{
public static void main(String[] args)
  {
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter the number");
        int n=sc.nextInt();
        int m=n;
        int sum=0;
        while(n>0)
        {
                int digit=n%10;
            int f=1;
                int i=1;

                while(i<=digit)
                {
                        f=f*i;
                        i++;
                }
                System.out.println(f);
                sum=sum+f;
                n=n/10;
        }
        if(m==sum)//sum of factorial of digit is equals to the number
        {
                System.out.println("Entered number is a Strong number ");
        }
        else
        {
        System.out.println("Entered number is not a Strong number");
        }
   }
}
```

```
//4.WAJP to print sum of all the gfactors of the number entered(number itself is
not included).
```

```
import java.util.*;
class SumFactor
{
  public static void main(String[] args)
  {
          Scanner sc=new Scanner(System.in);
          System.out.print("Enter the number to sum its factor: ");
          int n=sc.nextInt();
          int i=1;
          int sum=0;
          while(i<=n/2)
          {
                  if(n%i==0)
                  {
                        sum=sum+i;
                  }
        i++;
      }
          System.out.print("Sum of factors of the number "+n+" is: "+sum);
  }
}


/*5.WAJP to check whether the number is perfect or not(Sum of all the factors of
the number excluding number itself is equals to the number then it is a perfect
number.)*/
import java.util.*;
class CheckPerfect
{
  public static void main(String[] args)
  {
          Scanner sc=new Scanner(System.in);
          System.out.print("Enter the number to check perfect number: ");
          int n=sc.nextInt();
          int m=n;
          int i=1;
          int sum=0;
          while(i<=n/2)
          {
                  if(n%i==0)
                  {
                        sum=sum+i;
                  }
        i++;
      }
           if(sum==m)
           {
                   System.out.println(n+" is a perfect number");
           }
           else
```

```
            {
                    System.out.println(n+" is not a perfect number");
            }
    }
}



//6.Take an input from user and generate the table of that number.
import java.util.*;
class SingleTable
  {
    public static void main(String[] args)
        {
                Scanner sc=new Scanner(System.in);
                System.out.println("Enter the number to print table");
                int n=sc.nextInt();
                int i=1;

                System.out.println("The table of "+n+" is: ");
                while(i<=10)
                {
                 int table=i*n;
                 System.out.println(n+"*"+i+" = "+table);
                 i++;
                }
        }
  }



//7.Take an input from user and generate table upto that number.
import java.util.*;
class UptoTable
  {
    public static void main(String[] args)
        {
                Scanner sc=new Scanner(System.in);
                System.out.print("Enter the number to print table: ");
                int n=sc.nextInt();
                int i=1;
                while(i<=n)
                {
                        int j=1;
                        while(j<=10)
                     {
                        int table=i*j;
                        System.out.println(i+"*"+j+" = "+table);
                        j++;
                         }
```

```
                        System.out.println("====================");
                        i++;
                }
        }
}
```