1.Sum of first n natural numbers which are divisible by 3 or 5.

```
File Edit Source Refactor Navigate Search Project Run Window Help
                                                                                                                                                                                                                       Q B V × *, - 0
© Project Explorer × # Servers □ ♥ ₹ ₹ □ □ Operations.java □ Find_Smallest_Number.java □ Average_Numbers.java □ Natural_Num.java ×
                                                           1 package Assignment_Day_02;
→ M JRE System Library [JavaSE-21]
                                                               3 import java.util.Scanner;
   ∨ 🎜 src
                                                              4
5 public class Natural_Num {
6 public static void main(String[] args) {
7 Scanner sc=new Scanner(System.in);
8 System.out.println("Enter the number: ");
9 int number=sc.nextInt();
10 Natural_Num obj= new Natural_Num();
11 int result=obj.calculateSum(number);
12 System.out.println("The sum of Natural Number which is Divisible by 3 or 5 is: "+result);
13

→ 
B Assignment_Day_02

         Average_Numbers.java

→ La Check_Number.java

         Employee Info.java
         > Find_Smallest_Number.java
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}
        > // Increasing Number.iava
        Natural_Num.java
         Derations.java
Square_Differences.java
                                                                       public int calculateSum(int number)
                                                                            int sum=0;
for(int i=1;i<=number;i++)</pre>
  Practice
                                                                                  if(i%3==0 || i%5==0)
                                                                                sum+=i;
}
                                                                      }
                                                                                                                                                                             0 = x % | 1 = 1 = 0 = 0
                                                            □ Console × № Problems □ Debug Shell
                                                            <terminated> Natural_Num (Java Application) C:\Users\2380244\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32:x86_64_21.0
                                                            Enter the number:
                                                            The sum of Natural Number which is Divisible by 3 or 5 is: 98
```

2.Difference between the sum of the squares and the square of the sum of the first n natural numbers.



3. Check if a number is an increasing number.

```
☐ Find_Smallest_Number.java ☐ Average_Numbers.java ☐ Natural_Num.java ☐ Square_Differences.java ☐ *Increasing_Number.java ×
    1 package Assignment_Day_02;
     import java.util.Scanner;
   5 public class Increasing_Number {
         public static void main(String[] args) {
             nac static void main(String[] angs) {
Scanner Scanner(System.in);
System.out.println("Enter the Number:");
int number=sc.nextInt();
boolean result=checkNumber(number);
if(result);
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                 System.out.println(number+" is an increasing number");
                  System.out.println(number+" is not an increasing number");
          public static boolean checkNumber(int number)
{
             while(number>0)
                 int number1=number%10;
                  number/=10;
int number2=number%10;
                  if(number1<number2)
                     return false;
                 }
             return true;
                                                                                                 🗏 Console × 🙎 Problems 🗓 Debug Shell
■ Console ×  Problems  Debug Shell
                                                                                                 <terminated> Increasing_Number [Java Application]
<terminated> Increasing_Number [Java Application]
                                                                                                 Enter the Number:
Enter the Number:
                                                                                                 134468
134278
                                                                                                 134468 is an increasing number
134278 is not an increasing number
```

4. Check if a number is a power of two or not.

```
© Console × № Problems ② Debug Shell

<terminated > Check_Number [Java Application]

Enter the Number:

256

256 is a Power of 2

© Console × № Problems ② Debug Shell

<terminated > Check_Number [Java Application]

Enter the Number:

124

124 is not a Power of 2
```

5.Take Input - Employee Info like empid, empname, empsal, empAdd,empGender, empEmail and display it.

```
Departions java
Defind_Smallest_Number.java
Average_Numbers.java
Defind_Smallest_Number.java
Defind_Smallest_Numb
          1 package Assignment_Day_02;
           3 import java.util.Scanner;
          5 public class Employee_Info {
                       public static void main(String[] args) {
                                  Scanner sc=new Scanner(System.in);
System.out.println("Enter the Employee Id: ");
int empId=sc.nextInt();
                                 Intemplates.incline();
sc.nextline();
System.out.println("Enter the Employee Name: ");
String empName=sc.nextline();
System.out.println("Enter the Employee's Salary: ");
                                  System.out.println("Enter the Employee's Salary: ");
double empSalary=sc.nextDouble();
sc.nextLine();
System.out.println("Enter the Employee Address: ");
String empAdd=sc.nextLine();
System.out.println("Enter the Employee Gender (M/F): ");
                                 char empGender=sc.next().charAt(0);
sc.nextLine();
System.out.println("Enter the Employee's Email: ");
String email=sc.nextLine();
                                 System.out.println("======="");
System.out.println("Employee's Id is: "+empId);
System.out.println("Employee's Name is: "+empName.toUpperCase());
System.out.println("Employee's Salary is: "+empSalary);
System.out.println("Employee's Address is: "+empSalary);
System.out.println("Employee's Address is: "+empAdd);
System.out.println("Employee's Gender is: "+empGender);
System.out.println("Employee's Email is: "+email);
                                                                                                                                                                                                                                                                                                 Console × 🛭 Problems 🗓 Debug Shell
<terminated> Employee_Info [Java Application] C:\Users\2380244\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21
Enter the Employee Id:
2380244
Enter the Employee Name:
Sanjay P
Enter the Employee's Salary:
18118
Enter the Employee Address:
Salem, TamilNadu
Enter the Employee Gender (M/F):
Enter the Employee's Email:
sanjaydp1228@gmail.com
______
Employee's Id is: 2380244
Employee's Name is: SANJAY P
Employee's Salary is: 18118.0
Employee's Address is: Salem, TamilNadu
Employee's Gender is: M
Employee's Email is: sanjaydp1228@gmail.com
```

6.Print the sum (addition), multiply, subtract, divide and remainder of two numbers.

```
🗸 🚨 *Operations.java × 🔟 Find_Smallest_Number.java 🚨 Average_Numbers.java 🚨 Natural_Num.java 🚇 Square_Differences.java 🚇 Increasing_Number.java 🚨 Check_Number.java 🚨 *Employee_Info.java
    1 package Assignment_Day_02;
    3 import java.util.Scanner:
    5 public class Operations {
          public static void main(String[] args) {
               Scanner sc=new Scanner(System.in);
               System.out.println("Enter the First Number:");
              int number1=sc.nextInt();
System.out.println("Enter the Second Number:");
              int number2=sc.nextInt();
              int sum=number1+number2;
              int sub=number1-number2;
int mul=number1*number2;
              int div=number1/number2;
int modulos=number1%number2;
              System.out.println("The Addition Of 2 Numbers is: "+sum);
System.out.println("The Addition Of 2 Numbers is: "+sub);
System.out.println("The Addition Of 2 Numbers is: "+mul);
System.out.println("The Addition Of 2 Numbers is: "+div);
               System.out.println("The Addition Of 2 Numbers is: "+modulos);
  27
28 }
                                                                                                                                ■ Console ×  Problems  Debug Shell
<terminated> Operations [Java Application] C:\Users\2380244\Downloads\sts-4.27.0.RELEASE\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_21.0.5
Enter the First Number:
Enter the Second Number:
The Addition Of 2 Numbers is: 150
The Addition Of 2 Numbers is: 100
The Addition Of 2 Numbers is: 3125
The Addition Of 2 Numbers is: 5
The Addition Of 2 Numbers is: 0
```

7. Find the smallest number among three numbers.

```
### Operations.java  ### Direct Number.java  ### Average_Numbers.java  ### Natural_Num.java  ### Square_Differences.java  ### Increasing_Number.java  ### Check_Number.java  ### Check_
```

```
☐ Console × Problems ☐ Debug Shell

<terminated> Find_Smallest_Number [Java Application]

Enter the First Number:

45

Enter the Second Number:

18

Enter the Third Number:

33

The Smallest Value is: 18.0
```

8. Compute the average of three numbers.

```
😑 💲 🎖 🖁 🗖 🚇 Operations,java 🔑 Find_Smallest... 🔑 Average_Numb... × 🔑 Natural_Num.j... 🔑 Square_Differ... 🔑 Increasing_N... 🔑 Check_Number....
<sup>®</sup> Project Explorer × <sup>™</sup> Servers
package Assignment_Day_02;
  > ■ JRE System Library [JavaSE-21]
                                                     3 import java.util.Scanner;
  Assignment_Day_01
                                                     5 public class Average_Numbers {
                                                           public static void main(String[] args) {
    Scanner sc=new Scanner(System.in);
     Assignment_Day_02
       Average_Numbers.java
                                                                System.out.println("Enter the First Number:");
int number1=sc.nextInt();
       > 🛭 Employee_Info.java
                                                                System.out.println("Enter the Second Number:");
       > Find_Smallest_Number.java
                                                   11
12
                                                               int number2=sc.nextInt();
System.out.println("Enter the Third Number:");
       Increasing Number.java
                                                   13
14
                                                               int number3=sc.nextInt();
       Natural Num.iava
       Derations.java
                                                                Average_Numbers obj=new Average_Numbers();
       › A Square_Differences.java
                                                                double result=obj.averageNumber(number1,number2,number3);
System.out.printf("The Average of 3 numbers is: %.2f%n",result);
                                                   18
> > EmployeeRestapp [boot]
                                                            public double averageNumber(int number1, int number2,int number3)
> 📂 Practice
                                                   20
21
                                                                 return (number1+number2+number3)/3.0;
                                                   23 }
                                                                                                                                                 □ Console × 📳 Problems 🗓 Debug Shell
                                                   <terminated > Average Numbers [Java Application] C:\Users\2380244\Downloads\sts-4.27.0.RELEASE\plugins\org.edipse.justj.openjdk.hotspot.jre.full.win32.x86_64
                                                   Enter the First Number:
                                                  Enter the Second Number:
                                                  Enter the Third Number:
                                                   The Average of 3 numbers is: 15.67
```