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Calcsum.java

```
package com.cts;


import java.util.Scanner;


public class Calcsum {
	public static int calculatesum(int n) {
		int sum=0;
		for(int i=1;i<=n;i++) {
			if(i%3==0||i%5==0) {
				sum+=i;
			}
		}
		return sum;
	}


	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		System.out.println("Enter the number :");
		int n=sc.nextInt();
		System.out.println(calculatesum(n));
	}
```

```
}
```

CalcDiff.java

```
package com.cts;


import java.util.Scanner;


public class CalcDiff {
	public static void main(String[] args) {
		Scanner sc=new Scanner(System.in);
		System.out.println("enter the limit");
		int n=sc.nextInt();
		CalcDiff obj=new CalcDiff();
		System.out.println(obj.calculateDifference(n));
	}

	public int calculateDifference(int n) {
		int sumofsquares=0;
		int sum=0;
		for(int i=1;i<=n;i++) {
			sumofsquares+=i*i;
			sum+=i;
		}
		int squaresofsum=sum*sum;
		return squaresofsum-sumofsquares;
	}
```

```
}
```

IncNo.java

```
package com.cts;


public class IncNo {


        public static void main(String[] args) {

                int number = 12321;

    System.out.println("Is the number " + number + " an increasing number? " +
isIncreasingNumber(number));

        }


        private static boolean isIncreasingNumber(int number) {

                int previousDigit=10;   //12321

    while (number > 0) {

      int currentDigit = number % 10;

      if (currentDigit > previousDigit) {

        return false;

      }

      previousDigit = currentDigit;

      number /= 10;

    }

    return true;

  }


        }
```

checkNumber.java

```
package com.cts;


public class checkNumber {


	public static void main(String[] args) {


			int number1=8;

			int number2=10;

			System.out.println("is "+number1+" a power of two?
"+checkNumber(number1));

			System.out.println("is "+number2+" a power of two?
"+checkNumber(number2));




	}
	public static boolean checkNumber(int n) {
		if(n<=0) {
			return false;
		}
		while(n>1) {
			if(n%2!=0) {
				return false;
			}
			n=n/2;
		}
```

```
                return true;
        }

}
```

EmployeeInfo.java

```
package com.cts;

import java.util.Scanner;

public class EmployeeInfo {

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

    System.out.print("Enter Employee ID: ");
    int empid = sc.nextInt();
    sc.nextLine();

    System.out.print("Enter Employee Name: ");
    String empname = sc.nextLine();

    System.out.print("Enter Employee Salary: ");
    double empsal = sc.nextDouble();
    sc.nextLine();

    System.out.print("Enter Employee Address: ");
```

```
        String empAdd = sc.nextLine();

        System.out.print("Enter Employee Gender: ");
        String empGender = sc.nextLine();

        System.out.print("Enter Employee Email: ");
        String empEmail = sc.nextLine();

        sc.close();

        System.out.println("\nEmployee Information:");
        System.out.println("Employee ID: " + empid);
        System.out.println("Employee Name: " + empname);
        System.out.println("Employee Salary: " + empsal);
        System.out.println("Employee Address: " + empAdd);
        System.out.println("Employee Gender: " + empGender);
        System.out.println("Employee Email: " + empEmail);
    }
}
```

Calc.java

```
package com.cts;

import java.util.Scanner;

public class Calc {
```

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

        // Taking two numbers as input
        System.out.print("Enter the first number: ");
        int num1 = sc.nextInt();

        System.out.print("Enter the second number: ");
        int num2 = sc.nextInt();

        sc.close();

        int sum = num1 + num2;
        int difference = num1 - num2;
        int product = num1 * num2;
        int quotient = num1 / num2;
        int remainder = num1 % num2;

        // Displaying the results
        System.out.println("Sum: " + sum);
        System.out.println("Difference: " + difference);
        System.out.println("Product: " + product);
        System.out.println("Quotient: " + quotient);
        System.out.println("Remainder: " + remainder);
    }
}
```

Smallest.java

```
package com.cts;


public class Smallest {


   public static void main(String[] args) {

      int num1 = 10;

      int num2 = 20;

      int num3 = 5;


      System.out.println("The smallest number among " + num1 + ", " + num2 + ", and
" + num3 + " is: " + findSmallest(num1, num2, num3));

   }


   public static int findSmallest(int num1, int num2, int num3) {

      int smallest = num1;


      if (num2 < smallest) {

         smallest = num2;

      }


      if (num3 < smallest) {

         smallest = num3;

      }


      return smallest;

   }

}
```

Average.java

```
package com.cts;


public class Average {


   public static void main(String[] args) {

      int num1 = 10; // You can change these values to test other numbers

      int num2 = 20;

      int num3 = 30;


      System.out.println("The average of " + num1 + ", " + num2 + ", and " + num3 + " is:
" + computeAverage(num1, num2, num3));

   }


   public static double computeAverage(int num1, int num2, int num3) {

      return (num1 + num2 + num3) / 3.0;

   }

}
```