**Java Interface**

**import** java.util.\*;

**interface** AdvancedArithmetic{

**int** divisor\_sum(**int** n);

}

**class** MyCalculator **implements** AdvancedArithmetic{

**public** **int** divisor\_sum(**int** n){

**int** sum=0;

**for**(**int** i=1;i<=n;i++){

**if**(n%i==0){

                 sum=sum+i;

             }

        }

**return** sum;

    }

}

**class** Solution{

**public** **static** **void** main(String []args){

        MyCalculator my\_calculator = **new** MyCalculator();

        System.out.print("I implemented: ");

        ImplementedInterfaceNames(my\_calculator);

        Scanner sc = **new** Scanner(System.in);

**int** n = sc.nextInt();

        System.out.print(my\_calculator.divisor\_sum(n) + "\n");

        sc.close();

    }

*/\**

*\*  ImplementedInterfaceNames method takes an object and prints the name of the interfaces it implemented*

*\*/*

**static** **void** ImplementedInterfaceNames(Object o){

        Class[] theInterfaces = o.getClass().getInterfaces();

**for** (**int** i = 0; i < theInterfaces.length; i++){

            String interfaceName = theInterfaces[i].getName();

            System.out.println(interfaceName);

        }

    }

}