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### COP & OS LAB Exam

1. Write a program to check whether a number given as input is divisible by the sum of its digits.

```
package num;

import java.util.Scanner;

class NumberDivisibility
{
    static String isDivisible(long n)
    {
        long temp = n;

        int sum = 0;
        while (n != 0)
        {
            int k = (int) n % 10;
            sum += k;
            n /= 10;
        }

        if (temp % sum == 0)
            return "YES";

        return "NO";
    }

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

OUTPUT:

```
<terminated> NumberDivisibility [Java Application] C:\Program Files\Eclipse Adoptium\
Enter a number:
45
YES|
```