

Day 22 coding Statement : Write a program to express a number as a sum of two prime numbers

### Description

Get a number as input from the user and express that number as sum of two prime numbers.

### Input

4

### Output

4 can be expressed as sum of 2 and 2

```
import java.util.Scanner;

public class Program {
    static int sumprimes(int n) {
        int i, isPrime = 1;
        for (i = 2; i <= n / 2; ++i) {
            if (n % i == 0) {
                isPrime = 0;
                break;
            }
        }
        return isPrime;
    }

    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter a number : ");
        int num = sc.nextInt();
        int flag = 0;
        for (int i = 2; i <= num / 2; ++i) {
            if (sumprimes(i) == 1) {
                if (sumprimes(num - i) == 1) {
                    System.out.println(num + " can be expressed as the
sum of " + i + " and " + (num - i));
                    flag = 1;
                }
            }
        }
        if (flag == 0)
            System.out.println(num + " cannot be expressed as the sum of two
primes");
    }
}
```