**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

**Code:**

// Day 22 coding Statement :

// Write a program to express a number as a sum of two prime numbers

import java.util.Scanner;

public class Day\_22 {

    public static void main(String[] args) {

        Scanner sc = new Scanner(System.in);

        System.out.print("Enter a number : ");

        int num = sc.nextInt();

        for (int i = 2; i <= num; i++) {

            boolean isPrime = true;

            for (int j = 3; j < i; j++) {

                if (i % j == 0) {

                    isPrime = false;

                    break;

                }

            }

            if (isPrime) {

                for (int k = i; k <= num; k++) {

                    boolean isPrime1 = true;

                    for (int l = 2; l <= k/2; l++) {

                        if (k % l == 0) {

                            isPrime1 = false;

                            break;

                        }

                    }

                    if (isPrime1 && (i + k == num)) {

              System.out.println(num+" can be expressd as "+i + " + " + k + " = " + num);

                    }

                }

            }

        }

    }

}

**Output:**

