

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:

```

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_22\Java>java Day_22.java
Enter a number : 5
5 can be expressd as 2 + 3 = 5

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_22\Java>java Day_22.java
Enter a number : 22
22 can be expressd as 3 + 19 = 22
22 can be expressd as 5 + 17 = 22
22 can be expressd as 11 + 11 = 22

C:\Users\DELL\Talent-Battle-100-Days-Coding-Series\Day_22\Java>java Day_22.java
Enter a number : 4
4 can be expressd as 2 + 2 = 4

```