Write a program to print the given number is Perfect number or not?

CODE:

import java.util.Scanner;

public class PerfectNumber {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

// Getting the number from the user

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

int number = scanner.nextInt();

// Checking if the number is a perfect number

if (isPerfectNumber(number)) {

System.out.println(number + " is a perfect number.");

} else {

System.out.println(number + " is not a perfect number.");

}

scanner.close();

}

public static boolean isPerfectNumber(int number) {

// Initialize sum to 0

int sum = 0;

// Iterate from 1 to number/2 and add the divisor if it divides number evenly

for (int i = 1; i <= number / 2; i++) {

if (number % i == 0) {

sum += i;

}

}

// If the sum of divisors equals the number, it is a perfect number

return sum == number;

}

}

OUTPUT:

C:\javap>javac PerfectNumber.java

C:\javap>java PerfectNumber

Enter a number: 69

69 is not a perfect number.

