

2. Write a program to find the perfect number

PROGRAM:

```
def is_perfect_number(n):  
    sum_of_divisors = 0  
    for i in range(1, n):  
        if n % i == 0:  
            sum_of_divisors += i  
    return sum_of_divisors == n  
number = int(input("enter the number"))  
if is_perfect_number(number):  
    print(number, "is a perfect number.")  
else:  
    print(number, "is not a perfect number.")
```

INPUT: `enter the number: 28`

OUTPUT: `28 is a perfect number.`

TIME COMPLEXITY: $O(n)$