

12. Write a program to find the perfect number.

Code:

```
def is_perfect_number(num):  
    if num <= 1:  
        return False  
    sum_of_divisors = sum(i for i in range(1, num) if num % i == 0)  
    return sum_of_divisors == num  
  
number = int(input("Enter a number: "))  
if is_perfect_number(number):  
    print(f"{number} is a perfect number.")  
else:  
    print(f"{number} is not a perfect number.")
```

Output:

```
Enter a number: 7  
7 is not a perfect number.
```

```
Enter a number: 6  
6 is a perfect number.
```

Time Complexity:

- $T(n) = O(n)$