**12.** Write a program to find the perfect number.

**Program:**

```
def is_perfect_number(n):
    if n <= 1:
        return False

    sum_of_divisors = 1  # 1 is a proper divisor of any number
    # Find all divisors from 2 up to the square root of n
    for i in range(2, int(n**0.5) + 1):
        if n % i == 0:
            sum_of_divisors += i
            if i != n // i:  # Add the corresponding divisor greater than sqrt(n)
                sum_of_divisors += n // i

    return sum_of_divisors == n

# Example usage
number = 28
if is_perfect_number(number):
    print(f"{number} is a perfect number.")
else:
    print(f"{number} is not a perfect number.")
```

**Output:**

```
"C:\Program Files\Python312\python.exe" "C:\Work Space\DAA COADS.PYTHON\program11.py"
Reverse of 12345 is 54321

Process finished with exit code 0
```

**Time complexity:**

O(√n)