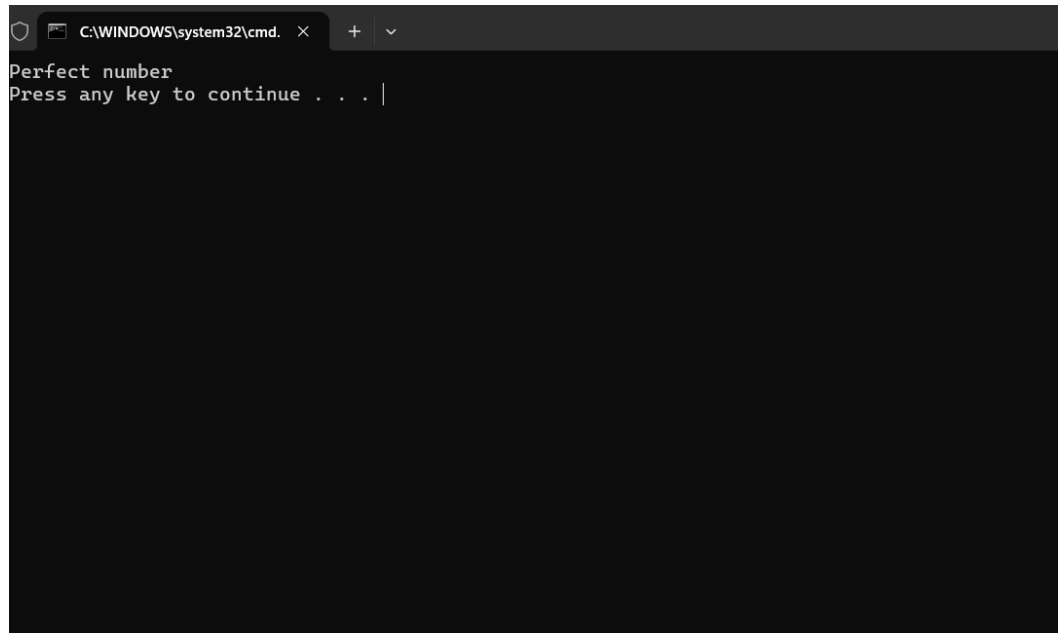


12) Write a program to find the perfect number.

CODE:

```
def per(num):  
    sum=0  
    for i in range(1,num):  
        if num%i==0:  
            sum+=i  
    if sum==num:  
        return True  
    else:  
        return False  
a=28  
if per(a):  
    print("Perfect number")  
else:  
    print("Not a perfect number")
```

OUTPUT:

A screenshot of a Windows command prompt window. The title bar shows the path 'C:\WINDOWS\system32\cmd.' and standard window controls. The command prompt displays the output of the program: 'Perfect number' followed by 'Press any key to continue . . . |' with a vertical cursor. The rest of the window is black.

TIME COMPLEXITY : $O(n)$