```python
def factorial(n):
    if n == 0:
        return 1
    else:
        return n * factorial(n - 1)


# Input a number
num = int(input("Enter a number: "))

# Check if the number is negative
if num < 0:
    print("Factorial is not defined
    for negative numbers.")
else:
    result = factorial(num)
    print(f"The factorial of {num} is
    {result}")
```

```
Enter a number: 4
The factorial of 4 is 24
>
```

```python
def is_leap_year(year):
    if (year % 4 == 0 and year % 100 != 0) or (year % 400 == 0):
        return True
    else:
        return False


# Input a year
year = int(input("Enter a year: "))

if is_leap_year(year):
    print(f"{year} is a leap year.")
else:
    print(f"{year} is not a leap year.")
```

```
Enter a year: 2023
2023 is not a leap year.
>
```