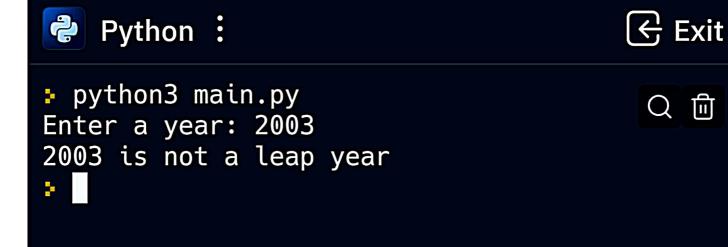```python
1   # Input year from the user
2   year = int(input("Enter a year: "))
3
4   # Check if it's a leap year
5   if (year % 4 == 0 and year % 100 != 0) or
     (year % 400 == 0):
6   print(year, "is a leap year")
7   else:
8   print(year, "is not a leap year")
```

```
 python3 main.py
Enter a year: 2003
2003 is not a leap year

```

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

```
python3 main.py
24
```