```python
    factorial of a number provided by
    the user.
2
3   # change the value for a different
    result
4   num = 7
5
6   # To take input from the user
7   #num = int(input("Enter a number:
    "))
8
9   factorial = 1
10
11  # check if the number is negative,
    positive or zero
12  if num < 0:
13      print("Sorry, factorial does not
    exist for negative numbers")
14  elif num == 0:
15      print("The factorial of 0 is 1")
16  else:
17      for i in range(1,num + 1):
18          factorial = factorial*i
19      print("The factorial
    of",num,"is",factorial)
```

The factorial of 7 is 5040

```python
year=2000
year=int(input("Enter a year:"))
if(year%400==0) and (year%100==0):
    print("{0} is a leap
year".format(year))
elif(year %4==0) and (year%100==0):
    print("{0} is a leap
year".format(year))
else:
    print("{0} is not a leap
year".format(year))
```

```
Enter a year:2000
2000 is a leap year
>
```