```python
#implement a recursive function to calculate
tha factorial of a given number

def fact_rec(n):
    if n==0 or n==1:
        return 1
    else:
        return n*(fact_rec(n-1))

number =2
rec =fact_rec(number )

print ("the factorial of {} is {}". format
(number,rec))
```

the factorial of 2 is 2

>_ Console

Run

```python
#Leap year

def isLeapyear(year ):
    if(year % 4==0 and year % 100!=0) or year % 400==0:
        return true
    else:
        return false

year=int(input ("enter a year ."))
if isLeapyear(year):
    print ("{} is a Leap,year.". format (year))
else:
    print ('{}is not a Leap year .'. format(year))
```

```
enter a year .2004
2004 is a Leap,year.
```