

```
1  # leap year
2
3  def isLeapYear(year):
4      if(year % 4 == 0 and year % 100 !=
5         0) or year % 400 == 0:
6          return True
7      else:
8          return False
9
10 year=int(input(" enter a year: "))
11 if isLeapYear(year):
12     print('{} is a leap
13     year.'.format(year))
14 else:
15     print('{} is not a leap
16     year.'.format(year))
```

1 #1.1 implement a recursive function to
calculate the factorial of a given
number

2

3

4 ✓ def fact_rec(n):

5 ✓ if n == 0 or n == 1:

6 return 1

7 ✓ else:

8 return n * fact_rec(n - 1)

9

10

11 number = int(input("enter a value : "))

12 res = fact_rec(number)

13

14 print("the factorial of {} is

{}." .format(number, res))

15