# Python 3 program to find

# factorial of given number

def factorial(n)

# single line to find factorial

return 1 if (n==1 or n==0) else n \* factorial(n - 1)

# Driver Code

num = 5

print("Factorial of",num,"is",factorial(num))

Output:

Factorial of 5 is 120

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Leap year:1.2

# Python program to check if year is a leap year or not

year = 2000

# To get year (integer input) from the user

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

# divided by 100 means century year (ending with 00)

# century year divided by 400 is leap year

if (year % 400 == 0) and (year % 100 == 0):

print("{0} is a leap year".format(year))

# not divided by 100 means not a century year

# year divided by 4 is a leap year

elif (year % 4 ==0) and (year % 100 != 0):

print("{0} is a leap year".format(year))

# if not divided by both 400 (century year) and 4 (not century year)

# year is not leap year

else:

print("{0} is not a leap year".format(year))

Output:

2000 is a leap year