```
#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))
```

```
#Implement a recursive function to calculate the factorial of a given number.


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

number = int(input("Enter a number:"))
res = fact_rect(number)
print("The factorial of {} is {}".format(number, res))
```