```python
1   #factorial
2 ∨ def fact_rec(n):
3 ∨    if n==0 or n==1:
4          return 1
5 ∨    else:
6          return n*fact_rec(n-1)
7   number=2
8   res=fact_rec(number)
9   print("the factorial of{}
    is{}.".format(number ,res))
10
11
```

```
the factorial of2 is2.
>
```

```python
def isleapyear(year):
    if (year%4==0 and year%100!=0) or
year%400==0:
        return True
    else:
        return False
year= 2012
if isleapyear(year):
    print("{} is a
leapyear.".format(year))
else:
    print("{} is not a leapyear .".
format(year))
```

```
2012 is a leapyear.
>
```