

 5\_6336895267932998495.py

```
# leap year
"""
year % 4 == 0 &
year % 100 != 0 /
year % 400 == 0
"""

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))
```



Catalogue



Settings



← 5\_6336895267932998497.py

```
# 1.1 implement a recursive function to  
calculate the factorial of a given numb  
er
```

```
"""
```

```
1! = 1 x 1
```

```
2! = 2 x 1! --->2 x 1
```

```
3! = 3 x 2! --->3 x 2 x 1
```

```
.
```

```
.
```

```
10! = 10 x 9! --->10 x 9 x 8 x.. x 1
```

```
Formula - n x (n-1)!
```

```
"""
```

```
def fact_rec(n):
```

```
    if n==0 or n==1:
```

```
        return 1
```

```
    else:
```

```
        return n*fact_rec(n-1)
```

```
number = int(input("enter the value :"))
```

```
res = fact_rec(number)
```

```
print("the factorial of {} is {}".format(n  
umber,res))
```



Catalogue



Settings

