```
111111
```

```
1!=1*1
2!=2*1!
3!=3\times2!
10!=10×9!
111111
def fact_rec(n):
if n==0 or n==1:
return 1
else:
return n*fact_rec(n-1)
number=int(input("enter a value:"))
res=fact_rec(number)
print("the factorial of
                               {} is
format(number,res))
```

```
year = int(input("Enter year to be
    checked: "))
2
3 \ vif year % 4 == 0:
   if year % 100 == 0:
5 \ if year % 400 == 0:
6
          print("The year is a leap
    year!")
7 v else:
8
        print("The year is not a leap
    year!")
9 else:
10
     print("The year is a leap
    year!")
11 velse:
12  print("The year is not a leap
    year!")
```