

"# 1.1 Implement a recursive function to calculate the factorial of a given number

'''

$$1! = 1 * 1$$

$$2! = 2 * 1! \rightarrow 2 * 1$$

$$3! = 3 * 2! \rightarrow 3 * 2 * 1$$

,

,

$$10! = 10 * 9! \rightarrow 10 * 9 * 8 * \dots * 1$$

*Formula - $n * (n-1)!$*

'''

def fact_rec(n):

if n == 0 or n == 1:

return 1

else:

*return n * fact_rec(n - 1)*

number = int(input("Enter a value :"))

res = fact_rec(number)

print("The factorial of {} is {}".format(number, res))"