Write a python program to find the sum of 1!+2!+.......N! numbers

Sample input: N=4

Sample output: Sum=33

CODE:

def factorial(n):

if n == 0 or n == 1:

return 1

else:

return n \* factorial(n - 1)

def sum\_of\_factorials(N):

sum\_result = 0

for i in range(1, N + 1):

sum\_result += factorial(i)

return sum\_result

# Taking input from the user

N = int(input("Enter the value of N: "))

# Calculating the sum of factorials and displaying the result

result = sum\_of\_factorials(N)

print(f"Sum of factorials from 1! to {N}! is: {result}")

OUTPUT:

Enter the value of N: 4

Sum of factorials from 1! to 4! is: 33

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