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

def recur\_factorial(n):

if n == 1:

return n

else:

return n\*recur\_factorial(n-1)

# take input from the user

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

# check is the number is negative

if num < 0:

print("Sorry, factorial does not exist for negative numbers")

elif num == 0:

print("The factorial of 0 is 1")

else:

print("The factorial of",num,"is",recur\_factorial(num))

Enter a number : 2

The factorial of 2 is 2