```
# 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))
```