```
# 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))
```