main (5)

```
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 exit for negative numbers")
elif num == 0:
print("defthe factorial if 0 is 1")
else:
print("the factorial of", num, "is", recur_factorial(num))
```