

```
Def factorial(n):
```

```
    If n == 0:
```

```
        Return 1
```

```
    Else:
```

```
        Return n * factorial(n-1)
```

```
# Test the function
```

```
Num = int(input("Enter a non-negative integer: "))
```

```
If num < 0:
```

```
    Print("Factorial is not defined for negative numbers.")
```

```
Else:
```

```
    Result = factorial(num)
```

```
    Print(f"The factorial of {num} is {result}.")
```