

**Experiment no – 01 (F)**

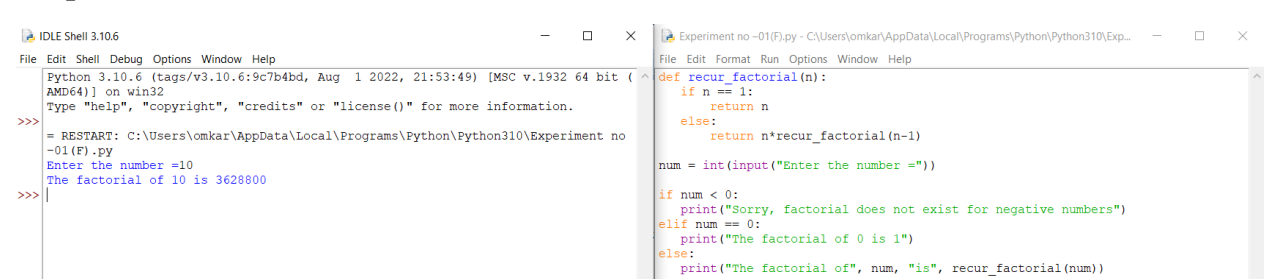
**Aim:** Write a recursive function to print the factorial for a given number.

**Theory:-**

**Practical Implementation:-**

**Code:-**

```
def recur_factorial(n):  
    if n == 1:  
        return n  
    else:  
        return n*recur_factorial(n-1)  
num = int(input("Enter the number ="))  
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))
```

**Output:-**

The screenshot displays two windows from the Python IDLE environment. The left window, titled 'IDLE Shell 3.10.6', shows the command prompt output: a restart message, a prompt to enter a number, and the result 'The factorial of 10 is 3628800'. The right window, titled 'Experiment no -01(F).py', shows the source code of the recursive factorial function and its execution logic, including input handling and conditional checks for negative and zero values.

**Conclusion:-** This is program successfully run.

