

Ex.No: 6a	FACTORIAL USING FUNCTION
Date :	

AIM:

To write a python program to evaluate the factorial using function.

ALGORITHM:

1. Start the program.
2. Enter the number to calculate the factorial value.
3. If the given value is less than zero, it prints as factorial does not exist for negative numbers.
4. If the given number is 0, the factorial of 0 is 1.
5. If the given number is greater than 0, for loop is executed for the factorial calculation.
factorial=factorial*i
6. Stop the program.

Program:

```
def factorial(num):  
    factorial=1 if num < 0: print("sorry, factorial does not  
    exist for negative numbers")  
    elif num == 0:  
        print("The factorial of 0 is 1")  
    else:  
        for i in range(1,num+1):  
            factorial=factorial*i  
    print "The factorial of ', num ',is' , factorial  
factorial(num=int(input('Enter number:')))
```

OUTPUT:

Enter number: 6

The factorial of 6 is 720

RESULT:

Thus the python program to evaluate the factorial using function is executed.