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Course: BSc Physical Science with Chemistry

-: Program :-

WAP to print the series and its sum: (use functions)
1/1! + 1/2! + 1/3! …….1/n!

-: Code :-

```python
def factorial(num):
    fact = 1
    while num:
        fact *= num
        num -= 1
    return fact



def fact_series(num):
    sum_str = ""
    sum = 0
    for i in range(1,num+1):
        sum += round(1/factorial(i),2)
        if i < num:
            sum_str += "1/"+str(factorial(i)) + " + "
        else:
            sum_str += "1/"+str(factorial(i)) + " = "
    return sum_str,sum



num = int(input("Enter the Number: "))
fact = fact_series(num)
print(fact[0],fact[1],sep="")
```

-: Output :-

```
Enter the Number: 5
1/1 + 1/2 + 1/6 + 1/24 + 1/120 = 1.72
PS C:\Users\Anshumank Sahay\Desktop\Class wo
```