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In [1]: #addition
def sum_numbers(x,y):
    sum_num=x+y
    return sum_num
n1=int(input("enter any number n1 : "))
n2=int(input("enter any number n2 :"))
sum1=sum_numbers(n1,n2)
print("the sum of numbers",n1,n2,"is :",sum1)
#subtraction
def diff_numbers(x,y):
    difference=x-y
    return difference
n1=int(input("enter any number n1 : "))
n2=int(input("enter any number n2 :"))
difference_num=diff_numbers(n1,n2)
print("the difference of numbers",n1,n2,"is :",difference_num)
#multiplication
def product_numbers(x,y):
    product=x*y
    return product
n1=int(input("enter any number n1 : "))
n2=int(input("enter any number n2 :"))
product_num=product_numbers(n1,n2)
print("the product of numbers",n1,n2,"is :",product_num)
#division
def division_numbers(x,y):
    division=x/y
    return division
n1=int(input("enter any number n1 : "))
n2=int(input("enter any number n2 :"))
division_num=division_numbers(n1,n2)
print("the division of numbers",n1,n2,"is :",division_num)
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enter any number n1 : 1
enter any number n2 :2
the sum of numbers 1 2 is : 3
enter any number n1 : 23
enter any number n2 :32
the difference of numbers 23 32 is : -9
enter any number n1 : 22
enter any number n2 :5
the product of numbers 22 5 is : 110
enter any number n1 : 34
enter any number n2 :76
the division of numbers 34 76 is : 0.4473684210526316

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In [2]: number=int(input(" enter any number to find factroial of the number :"))
factorial=1
if(number<0):
    print("The given number",number,"does not have factorial")
elif(number==0):
    print(" the given number",number,"is 1")
else:
    for x in range(1,number+1):
        factorial=factorial*x
print(" The facorial of given number",number,"is :",factorial)
```

enter any number to find factroial of the number :7
The facorial of given number 7 is : 5040

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In [3]: def num_count(x):
        """ this function returns the number of digits present in the given number"""
        count=0
        while(x>0):
            x=x//10
            count+=1
        return count
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In [4]: num_count(3456)
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Out[4]: 4

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In [5]: def person_relation(name):
        if(name=="darth vadder"):
            print("Hey Luke! I am your father")
        elif(name=="leela"):
            print("Hey Luke! I am your Sister")
        elif(name=="han"):
            print("Hey Luke! I am your Brother in law")
        elif(name=="r2d2"):
            print("Hey Luke! I am your Droid")
        else:
            print("Relation not found")
```

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In [6]: name=str.lower("HAN")
person_relation(name)
```

Hey Luke! I am your Brother in law

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In [7]: def squares_sum(*n):
        sum=0
        for x in (n):
            sum=sum+(x*x)
        return sum
```

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In [8]: squares_sum(2,3,5,7)
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Out[8]: 87

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In [ ]:
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