File Edit Shell Debug Options Window Help

```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 64 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>> nterms = int(input("How many terms? "))
...
... # first two terms
... n1, n2 = 0, 1
... count = 0
...
... # check if the number of terms is valid
... if nterms <= 0:
...    print("Please enter a positive integer")
... # if there is only one term, return n1
... elif nterms == 1:
...    print("Fibonacci sequence upto",nterms,":")
...    print(n1)
... # generate fibonacci sequence
... else:
...    print("Fibonacci sequence:")
...    while count < nterms:
...        print(n1)
...        nth = n1 + n2
...        # update values
...        n1 = n2
...        n2 = nth
...        count += 1
>>> [DEBUG ON]
>>> [DEBUG OFF]
>>>
========== RESTART: D:/python.py ==========
How many terms? 6
Fibonacci sequence:
0
1
1
2
3
5
>>>
```

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```
num1 = float(input(" Please Enter the First Value Number 1: "))
num2 = float(input(" Please Enter the Second Value Number 2: "))

add = num1 + num2

sub = num1 - num2

multi = num1 * num2

div = num1 / num2

mod = num1 % num2

expo = num1 ** num2

print("The Sum of {0} and {1} = {2}".format(num1, num2, add))
print("The Subtraction of {0} from {1} = {2}".format(num2, num1, sub))
print("The Multiplication of {0} and {1} = {2}".format(num1, num2, multi))
print("The Division of {0} and {1} = {2}".format(num1, num2, div))
print("The Modulus of {0} and {1} = {2}".format(num1, num2, mod))
print("The Exponent Value of {0} and {1} = {2}".format(num1, num2, expo))
```

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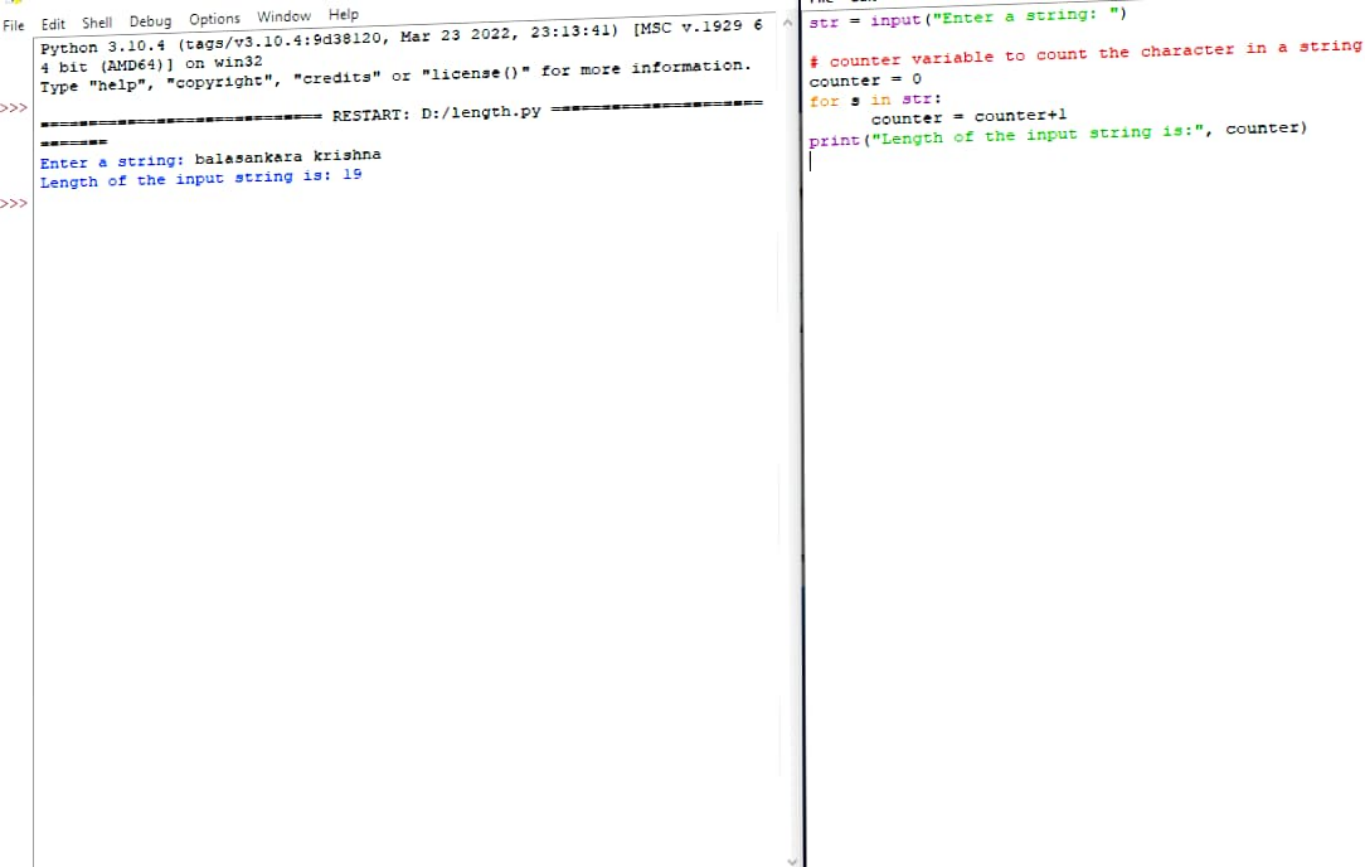
```
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/arithmetic.py ==========
=======
 Please Enter the First Value Number 1: 15
 Please Enter the Second Value Number 2: 2
The Sum of 15.0 and 2.0 = 17.0
The Subtraction of 2.0 from 15.0 = 13.0
The Multiplication of 15.0 and 2.0 = 30.0
The Division of 15.0 and 2.0 = 7.5
The Modulus of 15.0 and 2.0 = 1.0
The Exponent Value of 15.0 and 2.0 = 225.0
>>>
```


File Edit Shell Debug Options Window Help
Python 3.10.4 (tags/v3.10.4:9d38120, Mar 23 2022, 23:13:41) [MSC v.1929 6
4 bit (AMD64)] on win32
Type "help", "copyright", "credits" or "license()" for more information.
>>>
========== RESTART: D:/length.py ==========
=======
Enter a string: balasankara krishna
Length of the input string is: 19
>>>
str = input("Enter a string: ")
# counter variable to count the character in a string
counter = 0
for s in str:
counter = counter+1
print("Length of the input string is:", counter)