EAST WEST UNIVERSITY

Department of CSE
Lab Report

Course Code and Name: CSE303 – Statistics for Data Science	
Lab: 02 **Intermediate Python Programming**	
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Section: 02	**Date of Submission:** 21/10/2022

Source code: CSE303-Statistics-for-Data-Science-LAB/Lab2 at main · IntesarEWU/CSE303-Statistics-for-Data-Science-LAB (github.com)

LABHW:

1.

```
a = int(input("Enter 1st number: "))
b = int(input("Enter 2nd number: "))
c = b*a
print('1st input: ',a,'\n2nd input: ',b)
if (c > 1000):
    print(a+b)
else:
    print(c)
```

[11] Python

```
1st input:  12
2nd input:  30
360
```

2.

```
import math
radius = float(input('Enter radius of a circle: '))
print('Radius: ',radius)
area = math.pi*radius*radius
perimeter = 2*math.pi*radius
print('Aria: ',area,'\nPerimeter: ',perimeter)
```

[19] ✓ 2.4s Python

```
Radius:  23.0
Aria:  1661.9025137490005
Perimeter:  144.51326206513048
```

3.

```
p = float(input("Enter the principal amount: "))
r = float(input("Enter the rate of interest: "))
t = float(input("Enter the number of years: "))
print('principal: ',p,'\nRate of interest: ',r,'\nNumber of years:',t)
ci =  p * (pow((1 + r / 100), t))

print("Compound interest : ",ci)
```

[3] ✓ 14.5s Python

```
principal:  20.0
Rate of interest:  25.0
Number of years: 2.0
Compound interest :  31.25
```

4.

```
n = int(input("Enter Any Positive Number: "))
print("Entered Number: ",n)
sum=0
for i in range(n):
    i=i+1
    sum=sum+(i*i)
print(sum)
```

[21] ✓ 3.1s Python

```
Entered Number:  5
55
```

5.

```
def prime_find_2019160043(N):
    for x in range(2,N):
        if(N%x == 0):
            return 'Not Prime'
        else:
            return 'prime'
N = int(input('Enter a number: '))
print('Entered Number: ',N)
print(N,'is',prime_find_2019160043(N))
```

[34] ✓ 1.2s Python

```
Entered Number:  6
6 is Not Prime
```

6.

```
def fibonacci(n):
    if(n==0):
        return 0
    elif(n==1 or n==2):
        return 1
    else:
        return fibonacci(n-1)+fibonacci(n-2)
n=int(input('Enter integer: '))
print('Entered Number: ',n)
print(n,'\bth Fibonacci:',fibonacci(n))
```

[3] ✓ 4.7s Python

```
Entered Number:  9
9th Fibonacci: 34
```

7.

```
list = [1,2,3]
sum = 0
for x in list:
    sum=sum+x
print(sum)
```

[11] ✓ 0.5s Python

```
6
```

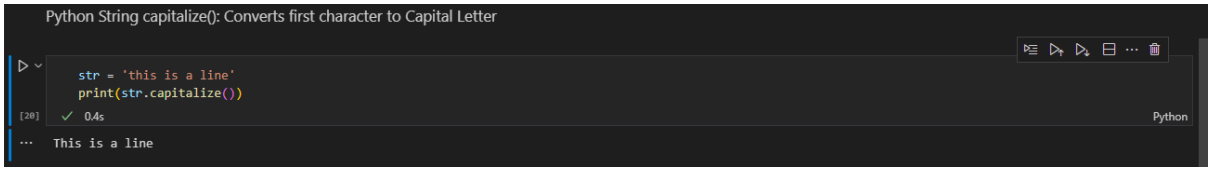
8.

```
list = [1,3,1,3,1,3]
sum=0
j=0
for x in list:
    if j % 2 == 0:
        sum+=x
    j+=1
print(sum)
```

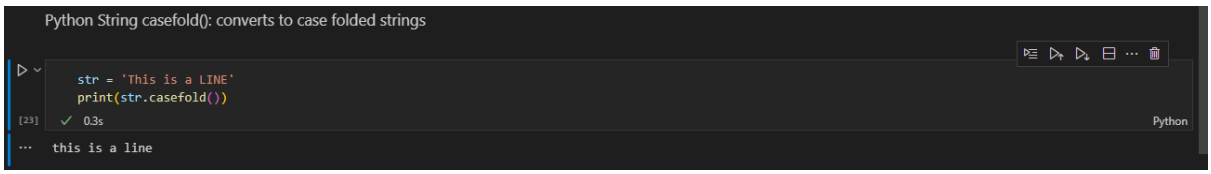
[18] ✓ 0.4s Python

```
3
```

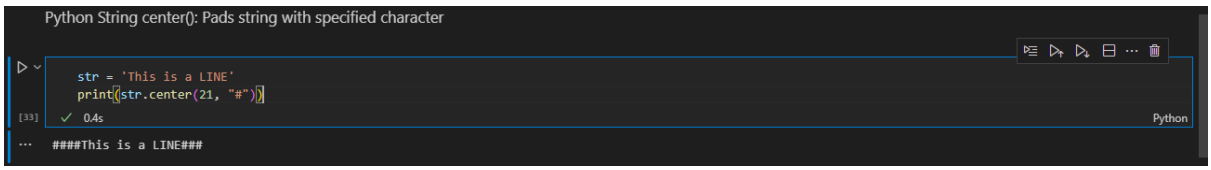
Python String capitalize(): Converts first character to Capital Letter



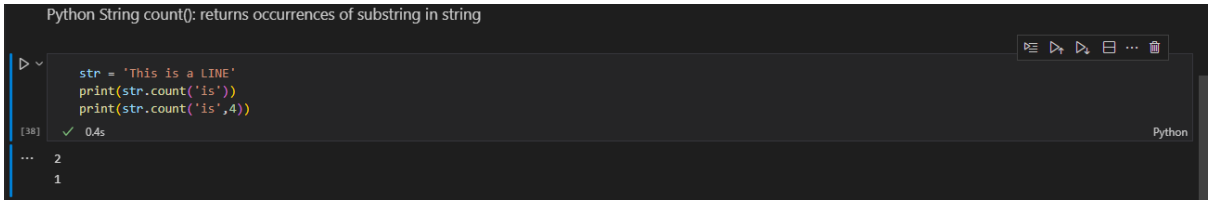
Python String casefold(): converts to case folded strings



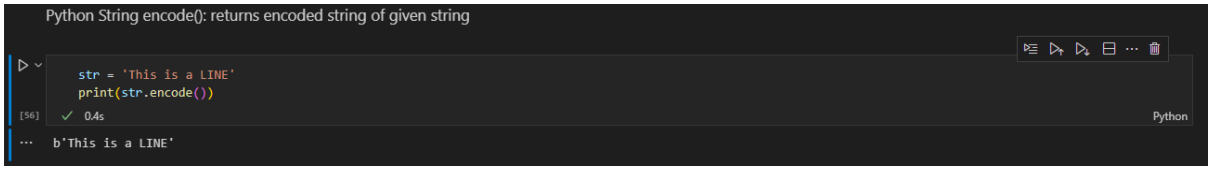
Python String center(): Pads string with specified character



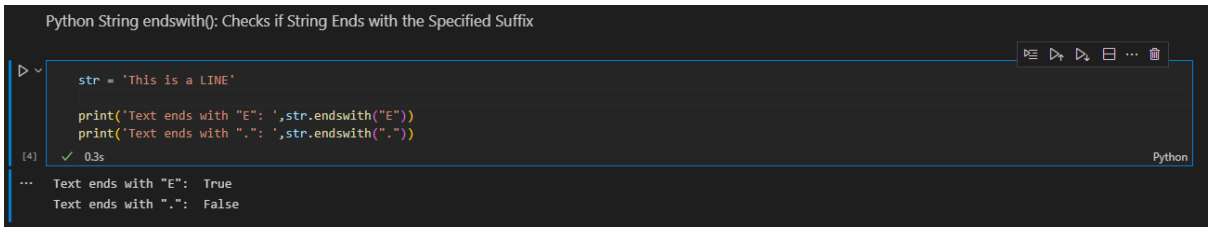
Python String count(): returns occurrences of substring in string



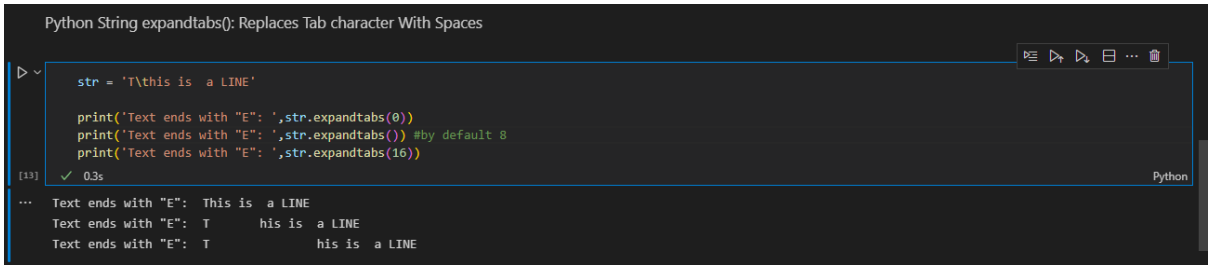
Python String encode(): returns encoded string of given string



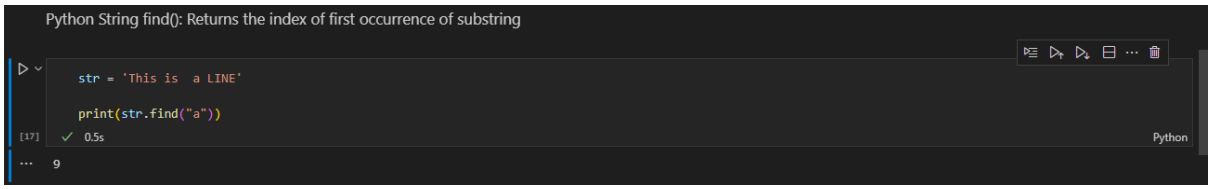
Python String endswith(): Checks if String Ends with the Specified Suffix



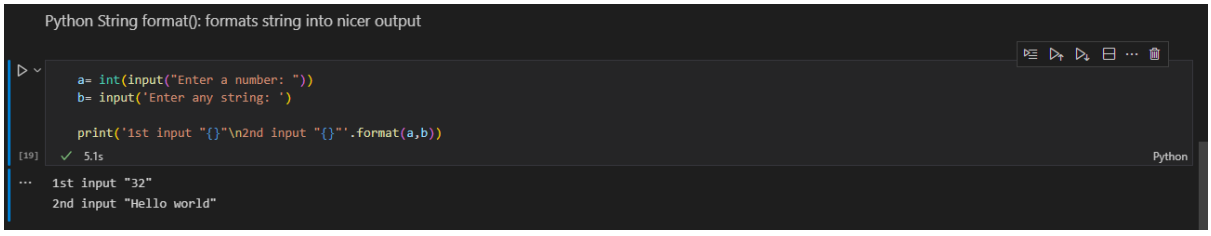
Python String expandtabs(): Replaces Tab character With Spaces



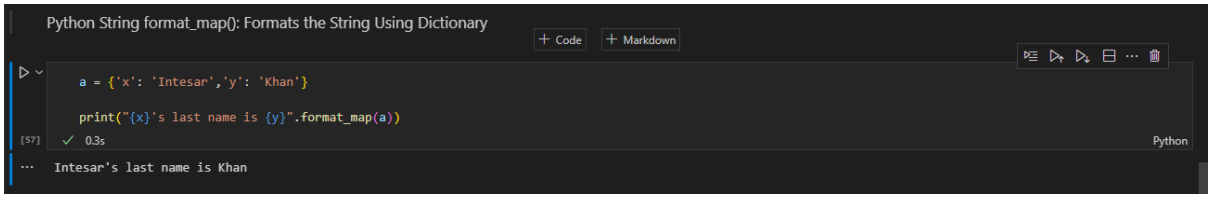
Python String find(): Returns the index of first occurrence of substring



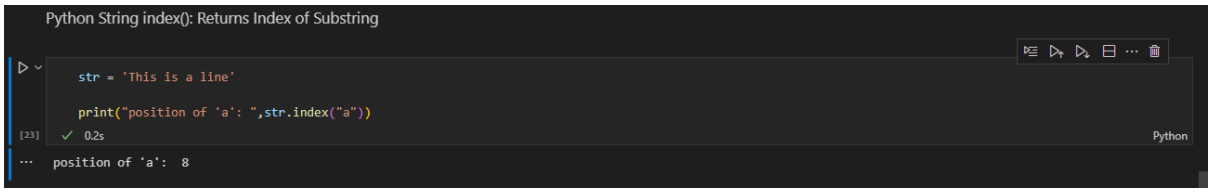
Python String format(): formats string into nicer output



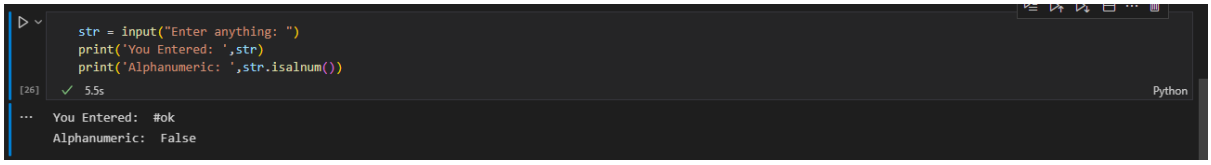
Python String format_map(): Formats the String Using Dictionary



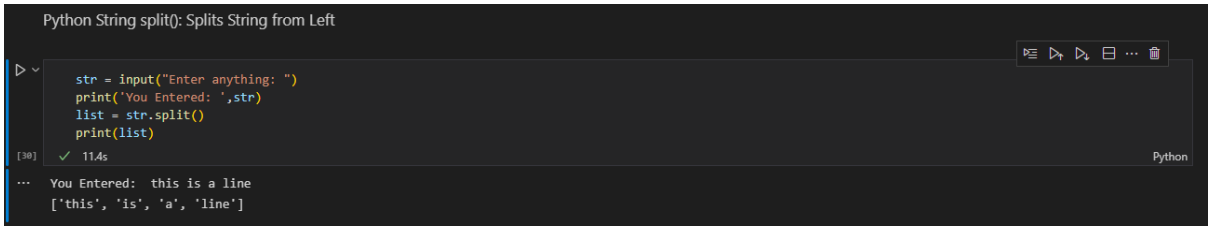
Python String index(): Returns Index of Substring



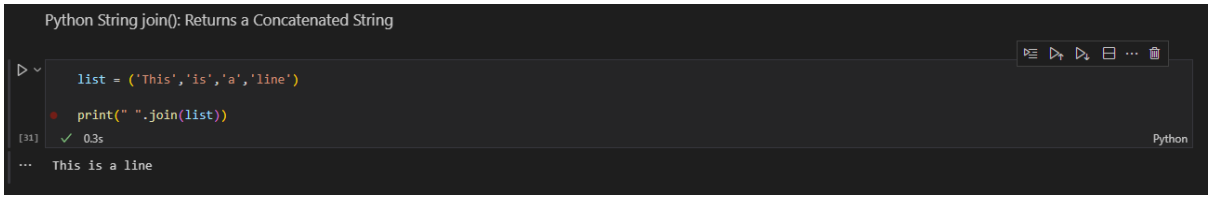
Python String isalnum(): Checks Alphanumeric Character



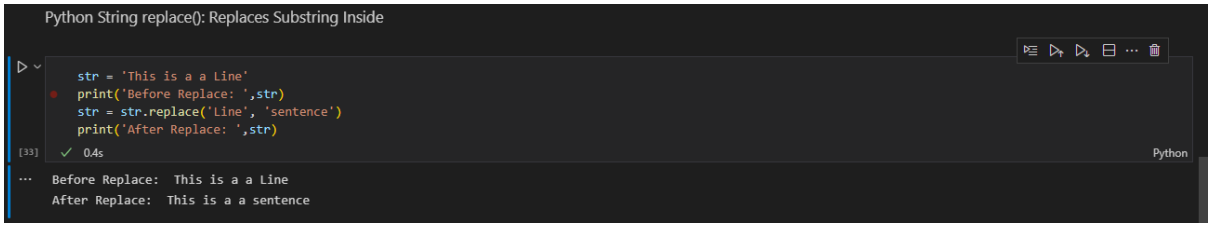
Python String split(): Splits String from Left



Python String join(): Returns a Concatenated String



Python String replace(): Replaces Substring Inside



Python String strip(): Removes Both Leading and Trailing Characters