maketrans and translate

removing punctuations

hello World

write a program to create a function to find the length of the string without using len method

```
localhost:8888/notebooks/Untitled2.ipynb?kernel_name=python3
```

1 length(s)

In []:

write a program to swapcase

```
In [2]:
             s=input("enter string")
          2 ans=""
          3 for i in s:
                 if i.isupper():
          5
                     ans+=i.lower()
                 elif i.islower():
          6
          7
                     ans+=i.upper()
          8
                 else:
          9
                     ans+=i
         10 print(ans)
```

enter stringsD Sd

write a program to find num of digit in given string the sum of the digit and the avg

```
In [1]:
          1 | s=input("enter the string")
          2 sum=0
          3 count=0
          4 for i in s:
          5
                 if i.isdigit():
                     count+=1
          6
          7
                     sum+=int(i)
          8 print(f'sum is:{sum}')
          9 print(f'avg is:{sum//count}')
         10 print(f'digit is:{count}')
        enter the stringsf 453648
        sum is:30
        avg is:5.0
        digit is:6
```

write a program to shift the number of following condition

input - given string -12345

```
inp=int(input("how many type shift"))
In [12]:
              inpn=int(input("enter the number"))
           2
           3
           4
              def shift num(inp,inpn):
           5
                  num=str(inpn)
           6
                  digit=len(num)
           7
           8
                  if inp>digit:
           9
                      result=num[::-1]
          10
                  else:
          11
                      result=num[inp:]+num[:inp]
                  return int(result)
          12
          13
              shift_num(inp,inpn)
         how many type shift2
         enter the number12345
Out[12]: 34512
 In [ ]:
In [14]:
           1 ## ziping
           2
           3 | a=1,2,3
           4 b=4,5,6
           5 print(tuple(zip(a,b)))
             list(zip(a,b))
         ((1, 4), (2, 5), (3, 6))
Out[14]: [(1, 4), (2, 5), (3, 6)]
In [16]:
           1 | ## tuple allows different data structure as element
           2 t=(None,1,[1,2],'hi')
              print(t)
          (None, 1, [1, 2], 'hi')
In [17]:
           1 # index
           2 t[3]
Out[17]: 'hi'
In [18]:
           1 t[2][0]=777
           1 print(t)
In [19]:
          (None, 1, [777, 2], 'hi')
```

```
1 # type conversion
In [20]:
           2 t=tuple('hello')
           3 t
Out[20]: ('h', 'e', 'l', 'l', 'o')
In [21]:
           1 | t1=1,2,3
           2 t2=4,5,6
           3 print(t1+t2)
           4 print(t1*3)
         (1, 2, 3, 4, 5, 6)
         (1, 2, 3, 1, 2, 3, 1, 2, 3)
In [22]:
           1 t=1,2,3,4
           2 print(4 in t)
         True
In [23]:
           1
              for i in t :
           2
                  print(i)
         1
         2
         3
         4
In [24]:
           1 for i in enumerate(t):
           2
                  print(i)
         (0, 1)
         (1, 2)
         (2, 3)
         (3, 4)
In [25]:
           1 for i,j in enumerate(t):
           2
                  print(i,j)
         0 1
         1 2
         2 3
         3 4
```

```
In [26]:
           1 t=78,5245,78,15,7458,541,10
             print(len(t))
           3 print(min(t))
           4 print(max(t))
           5 print(sorted(t))
           6 print(sorted(t,reverse=True))
         7
         10
         7458
         [10, 15, 78, 78, 541, 5245, 7458]
         [7458, 5245, 541, 78, 78, 15, 10]
In [31]:
           1 | t1=1,2,3
           2 t2=4,5,6
           3 t1==t2
Out[31]: False
In [30]:
           1 t1=1,2,3
           2 t2=4,5,6
           3 t1<t2
           4
Out[30]: True
In [33]:
           1 t1=1,2,3
           2 t2=1,2,3,4
           3
             t1==t2
           4
Out[33]: False
In [46]:
           1 t=(1,2,3,3)
In [40]:
             sum
Out[40]: 30
In [41]:
           1 | t
Out[41]: (1, 2, 3)
In [47]:
           1 t.count(3)
Out[47]: 2
 In [ ]:
```