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##2 CHARACTER FREQUENCY COUNT
str=input("Enter the string: ")
#list
l=list(str)
f=[l.count(ele)for ele in l]
print(f)
d=dict(zip(l,f))
print(d)

##4 SWAP FIRST TWO CHARACTERS
str1="abc"
str2="xyz"
#
x,y=(str1),(str2)
print(x,y)
x,y=y,x
print(x,y)

##7REMOVE CHARACTERS AT ODD INDICIES
str1=input("Enter the string")
def odd_sttring(string):
    res=""
    for i in range(len(string)):
        if i%2==0:
            res+=string[i]
    return res
print(odd_sttring("Something"))

##10 REVERSE A STRING
w=input("Enter a string: ")
for word in w.split():
    print(word[::-1],end=" ")

##12 REVERSE WORDS IN A STRING
str='Hello World'
words=str.split(" ")
print(words)

words=words[-1::-1]
print(words)

##16 SUM OF DIGITS IN A STRING

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A="Hello 1234"
sum=0
for i in A :
    if i.isdigit():
        sum=sum+int(i)
print(sum)

##18 COUNT CHARACTER SHAPES
str=input("Enter the string: ")
lower=0
upper=0
digit=0
special=0
for character in str:
    if character.islower():
        lower=lower+1
    elif character.isupper():
        upper=upper+1
    elif character.isdigit():
        digit=digit+1
    else:
        special=special+1
print("lowercase: ", lower)
print("uppercase: ", upper)
print("numerical value: ", digit)
print("special: ", special)

##9 CONVERT UPPERCASE TO LOWERCASE
string=input("Enter a string in capital letters: ")
print(string.lower())

##13 COUNT AND DISPLAY VOWELS
TEXT=input("Enter the text: ")
vowels="AEIOUaeiou"
count=len([letter for letter in TEXT if letter in vowels])
display=set([letter for letter in TEXT if letter in vowels])
print("Count of vowels in text is ", count)
print("vowels in text are ", display)

##21 SWAP CHARACTER CASES
STR=input("Enter text: ")
res=STR.swapcase()
print(res)

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