1. Find the length of a given string

```
In [1]: enter=input("Provide a string: ")

        length=len(enter)

        print("The length of your string is {}".format(length))
```
```
Provide a string: elephant
The length of your string is 8
```

1. Extract username from a given email.

```
In [1]: #means, like suppose email is nirajanrijal@gmail.com then we need output: nirajanrijal
        #means we need to find out position of @.

        email=input("Enter your email id\n")
        position=email.index("@")

        username=email[0:position]

        print(username)
```
```
Enter your email id
nirajanrijal@gmail.com
nirajanrijal
```

1. Count the frequency of a particular character in a provided string

```
In [3]: #there is a function called counter we can use that

        enter=input("Provide a sentence: ")
        count=enter.split()

        from collections import Counter

        b=Counter(count)
        print(b)
```
```
Provide a sentence: I like to I eat apple okay apple
Counter({'I': 2, 'apple': 2, 'like': 1, 'to': 1, 'eat': 1, 'okay': 1})
```

1. like same question as 3, but we want word with frequency 2 in one list and 1 with another list.

```
In [1]: enter=input("Provide a sentence: ")
        count=enter.split()
        frequency2=[]

        from collections import Counter

        b=Counter(count)

        for i,fre in b.items():
            if fre==2:
                frequency2.append(i)
        print(frequency2)
```
```
Provide a sentence: I like to I eat apple okay apple
['I', 'apple']
```

1. Write a program which can remove a particular character from a string.

```
In [7]: enter_words = input("Enter string: ")
        charac = input("Enter character you want to remove: ")
        result = []

        words = enter_words.split()
        for word in words:
            # Remove the specified character from each word
            modified_word = word.replace(charac, '')
            result.append(modified_word)

        print(result)
```
```
Enter string: zebra
Enter character you want to remove: r
['zeba']
```

1. Write a program that can check whether a given string is palindrome or not

```
In [1]: string=input("Enter string to check palindrome: ")
```

```python
if string.lower()==string.lower()[::-1]:
    print("it is palindrome")
```

```
Enter string to check palindrome: bob
it is palindrome
```

In [2]:
```python
string=input("Enter string to check palindrome: ")
if string.lower()==string.lower()[::-1]:
    print("it is palindrome")
```

```
Enter string to check palindrome: Bob
it is palindrome
```

In [3]:
```python
string=input("Enter string to check palindrome: ")
if string.lower()==string.lower()[::-1]:
    print("it is palindrome")
```

```
Enter string to check palindrome: hello
```

1. Write a program to count the number of words in a string

In [4]:
```python
string=input("Enter string to count words: ")
for i,num in enumerate(string):
    print(i,num)
```

```
Enter string to count words: elephant
0 e
1 l
2 e
3 p
4 h
5 a
6 n
7 t
```

In [5]:
```python
#will it make different, if I did not use enumerate:
string=input("Enter string to count words: ")
for i,num in string:
    print(i,num)
```

```
Enter string to count words: elephant
---------------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
Cell In[5], line 3
      1 #will it make different, if I did not use enumerate:
      2 string=input("Enter string to count words: ")
----> 3 for i,num in string:
      4     print(i,num)

ValueError: not enough values to unpack (expected 2, got 1)
```

In [6]:
```python
#yes error and will it make diff if i add enumerate and del num
string=input("Enter string to count words: ")
for i in enumerate(string):
    print(i,num)
```

```
Enter string to count words: elephant
(0, 'e') t
(1, 'l') t
(2, 'e') t
(3, 'p') t
(4, 'h') t
(5, 'a') t
(6, 'n') t
(7, 't') t
```

In [10]:
```python
string=input("Enter string to count words: ")
counter=0
for i in string:
    counter=counter+1
print("Total number in your string is", counter)
```

```
Enter string to count words: elephant
Total number in your string is 8
```

1. Write a python program to convert a string to title case

In [11]:
```python
string=input("Enter string to change into title case: ")

print(string.title())
```

```
Enter string to change into title case: hi, my name is khan
Hi, My Name Is Khan
```

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