

## String split methods

1. split()
2. rsplit()

split method required separator for splitting string into multiple strings.

### Example:

```
>>> str1="a,b,c,d,e"
>>> list1=str1.split(",")
>>> print(list1)
['a', 'b', 'c', 'd', 'e']
>>> list2=str1.split(",",2)
>>> print(list2)
['a', 'b', 'c,d,e']
>>> list3=str1.rsplit(",")
>>> print(list3)
['a', 'b', 'c', 'd', 'e']
>>> list4=str1.rsplit(",",2)
>>> print(list4)
['a,b,c', 'd', 'e']
```

### Example:

# example of input multiple values in single line

```
str1=input("Enter values ")
print(str1)
list1=str1.split()
print(list1)
list2=list(map(int,list1))
print(list2)
```

### Output

```
Enter values 10 20 30 40 50
10 20 30 40 50
['10', '20', '30', '40', '50']
[10, 20, 30, 40, 50]
```

**Example:**

```
# Write a program to input string and find pal words
# input: hello madam liril
```

```
str1=input("Enter any String ")
list1=str1.split()
for word in list1:
    if word==word[::-1]:
        print(word)
```

**Output**

```
Enter any String hello madam liril
madam
liril
```

**join() method**

This method is used to join list of strings (OR) collection of string into one string using separator.

Syntax: separator.join(iterable)

Separator is string which is used to join iterable of string into one string.

**Example:**

```
>>> list1=["hello","world"]
>>> str1=' '.join(list1)
>>> print(list1)
['hello', 'world']
>>> print(str1)
hello world
>>> str2=",".join(list1)
>>> print(str2)
hello,world
>>> list2=["a","b","c","d","e"]
>>> str3=",".join(list1)
>>> print(str3)
```

```
hello,world
>>> str3=",".join(list2)
>>> print(str3)
a,b,c,d,e
```

**Example:**

# Python program to print even length words in a string

```
str1=input("Enter any String ")
list1=str1.split()
for word in list1:
    if len(word)%2==0:
        print(word)
```

**Output**

```
Enter any String this is programming language
this
is
language
```

**Example:**

# Python Program to Accept the Strings Which Contains all Vowels

```
str1=input("Enter any String ")
str2=str1.lower()
if "a" in str2 and "e" in str2 and "i" in str2 and "o" in str2 and "u" in str2:
    print("Accepted...")
else:
    print("Not Accepted...")
```

**Output**

```
Enter any String aBcdEiOLU
Accepted...
```

```
Enter any String python
Not Accepted...
```

**Example:**

# Count the Number of matching characters in a pair of string  
'''

Input : str1 = 'abcdef'

str2 = 'defghia'

Output : 4

(i.e. matching characters :- a, d, e, f)

'''

```
str1=input("Enter first string ")
```

```
str2=input("Enter second string ")
```

```
# Removing duplicates
```

```
str3=""
```

```
for ch in str1:
```

```
    if ch not in str3:
```

```
        str3=str3+ch
```

```
# Removing duplicates
```

```
str4=""
```

```
for ch in str2:
```

```
    if ch not in str4:
```

```
        str4=str4+ch
```

```
# Reading character from string1 and searching in string2
```

```
c=0
```

```
for ch in str3:
```

```
    if ch in str4:
```

```
        c=c+1
```

```
print(c)
```

**String alignment methods or justification methods**

1. ljust()

2. rjust()

3. center()

### **str.ljust(*width*[, *fillchar*])**

Return the string left justified in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

#### **Example:**

```
s1="NIT"
print(s1.ljust(20))
print(s1.ljust(20,'*'))
print(s1.ljust(30,'$'))
print(s1.ljust(2))

names_list=["naresh","ramesh","ram","kishore","kiran"]
for name in names_list:
    print(name.ljust(20,'$'))
```

#### **Output**

```
NIT
NIT*****
NIT$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
NIT
naresh$$$$$$$$$$$$$$$$
ramesh$$$$$$$$$$$$$$$$
ram$$$$$$$$$$$$$$$$$$$$
kishore$$$$$$$$$$$$$$$$
kiran$$$$$$$$$$$$$$$$
```

### **str.rjust(*width*[, *fillchar*])**

Return the string right justified in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

```
s1="NIT"
print(s1.rjust(20))
print(s1.rjust(20,'$'))
print(s1.rjust(20,'&'))
```

```
names_list=["naresh","ramesh","ram","kishore","kiran"]
for name in names_list:
    print(name.rjust(20,'$'))
```

## Output

```

                NIT
$$$$$$$$$$$$$$$$NIT
&&&&&&&&&&&&&&&&NIT
$$$$$$$$$$$$$$$$naresh
$$$$$$$$$$$$$$$$ramesh
$$$$$$$$$$$$$$$$ram
$$$$$$$$$$$$$$$$kishore
$$$$$$$$$$$$$$$$kiran
```

## **str.center(width[, fillchar])**

Return centered in a string of length *width*. Padding is done using the specified *fillchar* (default is an ASCII space). The original string is returned if *width* is less than or equal to len(s).

## **Example:**

```
str1="ABCD"
print(str1.center(20))
print(str1.center(20,'*'))
```

## Output

```

        ABCD
*****ABCD*****
```

## **Strip methods or trim methods**

These methods are used to remove leading or trailing characters from string.

1. lstrip()
- 2.rstrip()
3. strip()