

---

---

## Python String

### A special tuple: String

In Python, A string can be treated as a tuple. However, Python provides some useful methods to manipulate strings.

#### **lower() and upper() methods:**

To make a string contain only lower case letters, you can use lower() method. In constrast, upper() method convert all letters of a string to upper case letters.

```
>>> st='Hello World'
```

```
>>> st.lower()
```

```
'hello world'
```

```
>>> st.upper()
```

```
'HELLO WORLD'
```

```
>>>
```

#### **replace() and find() methods:**

The replace() method will replace an old substring with a new substring. This method will not modify the string. It only returns a new string with the replacement.

```
>>> st.replace('World','Mr.Vibol')
```

```
'Hello Mr.Vibol'
```

```
>>> st
```

```
'Hello World'
```

```
>>>
```

To find a substring in a string, you can use find() method. The find() method will return a index of the substring. If the substring is not in the string, it will return -1.

```
>>> st.find('or')
```

```
7
```

```
>>> st.find(',')
```

-1

### **startswith() and endswith() methods:**

You test whether a string starts with or ends with a substring. These methods return True if the string starts with or ends with the substring, otherwise False.

```
>>> st.startswith('da')
```

```
False
```

```
>>> st.startswith('He')
```

```
True
```

```
>>> st.endswith('ol')
```

```
False
```

```
>>>
```

### **split() and join() methods:**

The split() method will split a string by a separator.

```
>>> fullname=raw_input("Please enter your name separated by space:")
```

```
Please enter your name separated by space:Yuk Sovandara
```

```
>>> fname=fullname.split(' ')[0]
```

```
>>> fname
```

```
'Yuk'
```

```
>>> lname=fullname.split(' ')[1]
```

```
>>> lname
```

```
'Sovandara'
```

```
>>>
```

To join substrings together to generate a string, you can use join() method:

```
>>> lst=['1','2','3','4','5']
```

```
>>> '+'.join(lst)
```

By: <http://www.worldbestlearningcenter.com>

---

'1+2+3+4+5'

Note: the first substring is treated as a separator in joining operation.