

String operations

```
In [ ]: x="Sam"  
        y="is a good boy"  
        z=" "
```

```
In [ ]: print(x+z+y)
```

```
In [ ]: print(x*3)
```

Membership test in strings

```
In [ ]: x="Today is a beautiful day"
```

```
In [ ]: "Today" in x
```

```
In [ ]: "today" in x #t is in lowercase
```

```
In [ ]: "Yesterday" in x
```

```
In [ ]: "bad" not in x
```

```
In [ ]: "Today" not in x
```

Length of strings

```
In [ ]: x="Today is a beautiful day"  
        len(x)
```

Eventhough the strings are not mutable there are some ways of modifying

```
In [ ]: x="My name is Sam"  
        y=x.replace("Sam","Kane")  
        print(y)
```

Converting strings to upper case and lower case

```
In [ ]: x="My name is Sam"
        y=x.upper()
        print(y)
```

```
In [ ]: x="My name is Sam"
        y=x.lower()
        print(y)
```

Capitalize the sentences

```
In [ ]: x="today is a great day"
        y=x.capitalize()
        print(y)
```

Swapping cases of the string values

```
In [ ]: x="Happy New Year!!!"
        y=x.swapcase()
        print(y)
```

Convert each word's first letter to uppercase

```
In [ ]: x="today is a great day"
        y=x.title()
        print(y)
```

Count a specific part in a string

```
In [ ]: x="today is a great day"
        x.count("day")
```

```
In [ ]: x="today is a great day"
        x.count("today")
```

```
In [ ]: x="today is a great day"
        x.count("a")
```

```
In [ ]: x="today is a great day"  
        x.count("bad")
```

startswith & endswith

```
In [ ]: x="Happy birth day"
```

```
In [ ]: x.startswith("Happy")
```

```
In [ ]: x.endswith("day")
```

```
In [ ]: x.endswith("year")
```

Find a specific parts's index in a sentence

```
In [ ]: x="Today is a rainy day"
```

```
In [ ]: x.find("is")
```

```
In [ ]: x.find("r")
```

```
In [ ]: x.find("z")
```

```
In [ ]: x.find("a")
```

Checking the specific characteristics of strings

Checking whether the string is alphanumeric (String has only letters and numbers)

```
In [ ]: x="123Dog"  
        x.isalnum()
```

```
In [ ]: x="#123Dog"  
        x.isalnum()
```

Checking whether the string has only letters

```
In [ ]: y="Cat"  
y.isalpha()
```

```
In [ ]: y="Man123"  
y.isalpha()
```

Checking whether the string has only intergers

```
In [ ]: x="1234"  
x.isdigit()
```

```
In [ ]: x="1234Dog"  
x.isdigit()
```

Checking whether the string is in lowercase

```
In [ ]: y="happy birthday"  
y.islower()
```

```
In [ ]: y="Happy birthday"  
y.islower()
```

Checking whether the string is in uppercase

```
In [ ]: y="HAPPY BIRTHDAY"  
y.isupper()
```

```
In [ ]: y="HaPPY BIRTHDAY"  
y.isupper()
```

Splitting a string to a list

```
In [ ]: msg="Today is a great day"
```

```
In [ ]: msg_list=msg.split(" ")  
print(msg_list)
```

```
In [ ]: msg_list=msg.split("a")  
print(msg_list)
```

```
In [ ]: L=list(msg)
        print(L)
```

Joining list of strings as a single string

```
In [ ]: L=["Happy","new","year"]
        L
```

```
In [ ]: msg=" ".join(L)
        print(msg)
```

```
In [ ]: msg=", ".join(L)
        print(msg)
```

```
In [ ]: msg="- ".join(L)
        print(msg)
```