In [3]:

```
"""String is a sequence of Unicode characters"""
```

Out[3]:

```
'String is a sequence of Unicode characters'
```

In [5]:

```
#String assignment: we can define string by single, double or triple quotation

string1 = 'Hello world!'
string2 = "Hello world!"
string3 = '''Hello world!'''

print(string1 + " " + string2 + " " + string3)
```

```
Hello world! Hello world! Hello world!
```

In [7]:

```
#Access element of a string

c1 = string1[0]
c2 = string1[10]
c3 = string1[6:11]

print(c1 + ' ' + c2 + ' ' + c3)
```

```
H d world
```

In [8]:

```
#Update string or delete elements from string

"""String is immutable. So, we can't update any string"""
```

Out[8]:

```
"String is immutable. So, we can't update any string"
```

In [9]:

```
#String delete

del string1
```

In [10]:

```
#String operations

str1 = "Joy"
str2 = "Bangla"
```

In [12]:

```
#Concatenation

print(str1 + " " + str2)
```

```
Joy Bangla
```

In [13]:

```
#repeat a string n-times

print(str1 * 3) #here, n = 3
```

```
JoyJoyJoy
```

In [15]:

```
#String membership test

print('y' in str1) #here, y is in str1
print('a' in str1) #but here, a is not in str1
```

```
True
False
```

In [16]:

```
#Lower function make the string in lower case

print(str1.lower())
```

```
joy
```

In [17]:

```
#Upper function make the string capitalize

print(str1.upper())
```

```
JOY
```

In [56]:

```
#Split function break the strings into several parts using the paremeter

str3 = "this is a string for test"
str4 = str3.split(" ")
print(str4)
```

```
['this', 'is', 'a', 'string', 'for', 'test']
```

In [57]:

```
#Join function merge all the elements of a list and make a string

str5 = ' '.join(str4)
print(str5)
```

```
this is a string for test
```

In [58]:

```
#find function return the first occurence of sub string

print(str5.find('is'))
```

```
2
```

In [59]:

```
#replace function one part of string with other

print(str5.replace('is', 'was'))
```

```
thwas was a string for test
```

In [64]:

```
#sorting word of a string

print('Old str= ' + str3)

words = str3.split()
words.sort()

str4 = ' '.join(words)

print('New str= ' + str4)
```

```
Old str= this is a string for test
New str= a for is string test this
```