# **Operators on String**

### **Concatenation:**

s1 = 'hello ' s2 = 'world ' s3 = s1+ s2 s3 = 'helloworld '

• It will concatenate the two string and gives the new string . Because string is immutable it will not modify it . It will create a new string

s4 = 'hello ' 'world ' Output : hello world s5 = 'hello ' + 15 #error

We have to do type casting with string

s5 = 'hello ' + str(15) Output : hello15

## Repetition

It will repeat

s1 = ' hi ' s1 \* 3

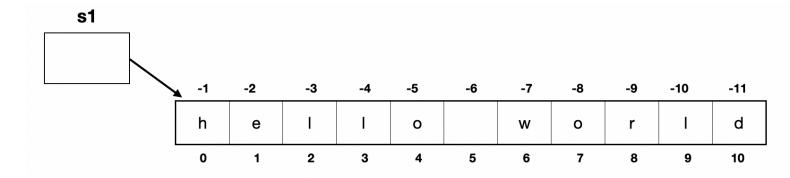
Output : hihihi

But the thing is it should be integer

You can have same string multiple times by using multiplication

## **Indexing:**

s1 = 'hello world '



· You can access any character of the string using index also called as substring

## Slicing:

```
s1 [start : end : step ]
• Slicing will work just like loop

s1= 'hello world '
s1[0 : len (s1) : 1 ]

Output : hello w
```

```
>>> s1[0:len(s1):1]
'Hello World'
>>> s1[:len(s1):1]
'Hello World'
>>> s1[::1]
'Hello World'
>>> s1[3::]
'lo World'
>>> s1[6::]
'World'
>>> s1[6:8:]
'Wo'
>>> s1[::2]
'HloWrd'
>>> s1[::-1]
'dlroW olleH'
>>> s1[-1: -len(s1)-1: -1]
'dlroW olleH'
>>> s1[-1::-1] \
'dlroW olleH'
>>> s1[-1::-2]
'drWolH'
```

#### in:

It will say if a character is present in the string or not . If it is present then it will return True or else False .

```
h in s1 —— True
world in s1 —— True
me in s1 —— False
```

#### not in:

It will say if it is not present . Then it will return True or else False .

```
me not in s1 — True world not in s1 — False
```

