⏭

In [4]:

```
name="RASEGA"
Name='rasega'
print("name:" + name + ", Name:" + Name) #concatenating string
print(name * 3) #repetition of string
```

name:RASEGA, Name:rasega
RASEGARASEGARASEGA

⏭

In [6]:

```
count="This is rediculous"
print(len(count)) #calcultes the length along with spaces
```

18

⏭

In [10]:

```
name="rasega"
print(name)
print(name[4])#4 th indexed data is returned
print(name[-1])# negative indexing is also allowed
print(name[2])#this is known as string indexing
```

rasega
g
a
s

⏭

In [12]:

```
name="Rasega"
print(name[6])#if the index exceeds, then it throws index error
```

```
---------------------------------------------------------------------------
IndexError                                Traceback (most recent call last)
<ipython-input-12-54d247442253> in <module>()
      1 name="Rasega"
----> 2 print(name[6])#if the index exceeds, then it throws index error

IndexError: string index out of range
```

⏭

In [13]:

```
color="Yellow"
print(color[1:4]) # slicing the string/returing substring from string
#it takes the first value and last value-1
```

ell

⏭

In [15]:

```
#other example for slicing
fruit="Pineapple"
print(fruit[:4]) # it returns the index till 4 from 0 (i.e 0,1,2,3)
print(fruit[4:]) # it returns the index from 4
```

Pine
apple

⏭

In [17]:

```
#modifing the string
s="good morning"
print(s)
s[4]="s" # not able to modify the single character in a string.it throws an error support i
#i.e., values are not modifiable.
print(s)
```

good morning

```
---------------------------------------------------------------------------
TypeError                                 Traceback (most recent call last)
<ipython-input-17-36580449adc2> in <module>()
      2 s="good morning"
      3 print(s)
----> 4 s[4]="s" # not able to modify the single character in a string.it th
rows an error support item assignment.bcoz string is immutable
      5 #i.e., values are not modifiable.
      6 print(s)

TypeError: 'str' object does not support item assignment
```

⏭

In [24]:

```
s="good morning"
print(s)
new_message=s[0:4] + " S" + s[4:13] #to add or modify data in a string

print(new_message)
new_message1=s[0:3] + 'D' + s[4:13]
print(new_message1)
```

good morning
good S morning
gooD morning

⏭

In [29]:

```
# to get the index of the particular character
name="Rasega"
name.index("a")
```

Out[29]:

1

⏭

In [31]:

```
new="cats & Dogs"
new.index("&")
```

Out[31]:

5

⏭

In [33]:

```
new="cats & Dogs"
new.index("Dogs")
```

Out[33]:

7

▶|

In [35]:

```python
new="cats & Dogs"
new.index("x")# it throws value error when substring is not available
```

```
---------------------------------------------------------------------
ValueError                                Traceback (most recent call last)
<ipython-input-35-63a89e86141e> in <module>()
      1 new="cats & Dogs"
----> 2 new.index("x")# it throws value error when substring is not availabl
e

ValueError: substring not found
```

▶|

In [38]:

```python
#to check whether the substring is available in string or not
new="cats & Dogs"
"cats" in new
```

Out[38]:

```
True
```

▶|

In [43]:

```python
name="rasega"
NAME="RASEGA"
print(NAME.lower())

print(name.upper())
```

```
rasega
RASEGA
```

▶|

In [51]:

```python
#strip fn removes the white spaces

" sentence ".strip()
```

Out[51]:

```
'sentence'
```

▶|

In [53]:

```
#lstrip
" sentence ".lstrip()
```

Out[53]:

```
'sentence '
```

▶|

In [56]:

```
#rstrip
" sentence ".rstrip()
```

Out[56]:

```
' sentence'
```

▶|

In [61]:

```
# split the string
"this is the great day".split()
```

Out[61]:

```
['this', 'is', 'the', 'great', 'day']
```