Untitled1

March 18, 2023

1 STRINGS

[2]:
```
## it is defined;
 #1.  " "
#2. ' '
```

[8]:
```
## strings are immutable (cannot be changed)
```

[6]:
```
str="Nifty 50 has given average return of 14% CAGR"
```

[7]:
```
str[0]
```

[7]: 'N'

[15]:
```
string="pw skills data science"
```

[10]:
```
string[5]
```

[10]: 'i'

[16]:
```
# slice operation
string[5:11]
```

[16]: 'ills d'

[17]:
```
string[-2]
```

[17]: 'c'

[18]:
```
string[-2:]
```

[18]: 'ce'

[20]:
```
string[-5:-2]
```

[20]: 'ien'

[21]:
```
string[:-1]
```

[21]:
```
'pw skills data scienc'
```

[23]:
```
string[:]
```

[23]:
```
'pw skills data science'
```

[24]:
```
name="punith"
```

[25]:
```
name[:-1]
```

[25]:
```
'punit'
```

[26]:
```
name[:]
```

[26]:
```
'punith'
```

[28]:
```
name[0]
```

[28]:
```
'p'
```

[29]:
```
name[1:5]
```

[29]:
```
'unit'
```

[30]:
```
name[-4:-1]
```

[30]:
```
'nit'
```

[33]:
```
name[-3:1]
```

[33]:
```
''
```

[37]:
```
## to reverse
##  number is step size
```

[47]:
```
name[::-1]
```

[47]:
```
'htinup'
```

[39]:
```
name[::-2]
```

[39]:
```
'hiu'
```

[40]:
```
name[::1]
```

[40]:
```
'punith'
```

[41]:
```
name[::3]
```

[41]:
```
'pi'
```

[42]:
```
name[4::-1]
```

[42]:
```
'tinup'
```

[49]:
```
## from where to where [x::y]
## - symbol is used to find in reverse order
## with double semi colon
## if single colon is used for +ve then particular element
## if single colon is used for -ve then the particular element will be choosen from backside
```

[84]:
```
## space gets counted
```

[83]:
```
course_name="data science Masters"
```

[82]:
```
course_name[5:13]
```

[82]:
```
' science'
```

[81]:
```
course_name[12:5:-1]
```

[81]:
```
'ecneics'
```

1.1 concatenation

[86]:
```
print("hello" + "world")
```

```
helloworld
```

[93]:
```
print(" datascience " * 3)
```

```
 datascience  datascience  datascience
```

[95]:
```
## helps to find the length
len(course_name)
```

[95]:
```
20
```

[98]:
```
## find function
## to find the index number
## it finds only the first element
```

[100]:
```
course_name.find("a")
```

[100]: 1

[99]:
```
course_name.find("a",2,10)
```

[99]: 3

[101]:
```
course_name.find("o")
```

[101]: -1

[102]:
```
## count() function
```

[103]:
```
course_name.count("a")
```

[103]: 3

[104]:
```
course_name.count("t")
```

[104]: 2

[105]:
```
course_name.count(" ")
```

[105]: 2

[106]:
```
course_name.count("")
```

[106]: 21

[107]:
```
course_name.count("a",2,10)
```

[107]: 1

[118]:
```
## string split function
## split is done for all the functions in a element
```

[109]:
```
course_name.split(" ")
```

[109]: ['data', 'science', 'Masters']

[110]:
```
name.split(" ")
```

[110]: ['punith']

[112]:
```
course_name.split('s')
```

[112]: ['data ', 'cience Ma', 'ter', '']

[113]:
```
name.split("u")
```

[113]: ['p', 'nith']

[117]:
```
### partitions
## partition is done only for first letter
```

[119]:
```
course_name.partition("s")
```

[119]: ('data ', 's', 'cience Masters')

[120]:
```
name.partition("t")
```

[120]: ('puni', 't', 'h')

[121]:
```
### string upper and lower case
```

[122]:
```
course_name.upper()
```

[122]: 'DATA SCIENCE MASTERS'

[123]:
```
course_name.lower()
```

[123]: 'data science masters'

[124]:
```
course_name.swapcase()
```

[124]: 'DATA SCIENCE mASTERS'

[125]:
```
## swap case is used to swap capital to small and vice versa
```

[126]:
```
course_name.title()
```

[126]: 'Data Science Masters'

[127]:
```
## title case is used to convert every first letter of each world into caps
```

[128]:
```
name.title()
```

[128]: 'Punith'

[130]:
```
name.upper()
```

[130]: 'PUNITH'

[132]:
```
name.swapcase()
```

[132]:
```
'PUNITH'
```

[ ]:
```

```