

Strings

" ", ' ', '""', '"""', '....', '"""'

```
In [1]: text = 'Innomatics Technology Hub'
        # shift + enter to excute the cell
```

type

```
In [3]: type(text) # it will return data type of the attribute
```

```
Out[3]: str
```

len : which will return length or width

```
In [4]: len(text)
```

```
Out[4]: 25
```

```
In [5]: text
```

```
Out[5]: 'Innomatics Technology Hub'
```

```
In [6]: # print 1st character text
        text[0]
```

```
Out[6]: 'I'
```

```
In [8]: # print 11th character
        # 18th character
        print(text[11],text[18])
        print(text[11]+text[18])
```

T o
To

```
In [11]: # Print Last character in text
          print(text[len(text)-1])
          print(text[-1])
```

b
b

```
In [12]: text
```

```
Out[12]: 'Innomatics Technology Hub'
```

```
In [13]: # print 1st 10 characters in text
text[0]+text[1]+text[2]+text[3]+text[4]+text[5]+text[6]+text[7]+text[8]+text[9]
```

Out[13]: 'Innomatics'

: - range

```
In [14]: start = 0
stop = 10
text[start:stop] # range = stop - start = 10 - 0 = 10 :characters
```

Out[14]: 'Innomatics'

```
In [18]: text
```

Out[18]: 'Innomatics Technology Hub'

```
In [21]: # print Last 10 characters in text
start = 15
stop = 25
text[start:stop]
```

Out[21]: 'nology Hub'

- Print 1st 3 characters
- Last 3 characters

```
In [22]: text[0:3]
```

Out[22]: 'Inn'

```
In [23]: text[:3]
```

Out[23]: 'Inn'

```
In [24]: # Last 3 chracters
text[-3:]
```

Out[24]: 'Hub'

```
In [26]: text[22:]
```

Out[26]: 'Hub'

```
In [27]: text
```

Out[27]: 'Innomatics Technology Hub'


```
In [49]: text = 'Python is an interpreted high-level programming language for general-purpose programming. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace'
```

In [51]: `len(text)`

Out[51]: 247

In [53]: `text`

Out[53]: 'Python is an interpreted high-level programming language for general-purpose programming. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace'

In [52]: `text.count('Python') # shift + tab`
`# sub string , start , stop (range of index)`

Out[52]: 2

In [56]: `# converting text into lower`
`text1 = text.lower()`
`text1`

Out[56]: 'python is an interpreted high-level programming language for general-purpose programming. created by guido van rossum and first released in 1991, python has a design philosophy that emphasizes code readability, notably using significant whitespace'

In [60]: `search = 'Python'`
`search = search.lower()`
`text1.count(search)`

Out[60]: 2

In [62]: `# finding index position of search words`
`ind = text1.find(search)`
`range_s = ind + len(search)`
`print('Index position of {} is from {} to {}'.format(search, ind, range_s))`

Index position of python is from 0 to 6

1. write a program to find the the index the postion

- 1991
- philosophy
- whitespace
- high-level

2. Count number "a" in text

```
In [64]: # finding index position of search words
search = '1991'.lower()
ind = text1.find(search)
range_s = ind + len(search)
print('Index position of {} is from {} to {}'.format(search,ind, range_s))

# finding index position of search words
search = 'philosophy'.lower()
ind = text1.find(search)
range_s = ind + len(search)
print('Index position of {} is from {} to {}'.format(search,ind, range_s))

# finding index position of search words
search = 'whitespace'.lower()
ind = text1.find(search)
range_s = ind + len(search)
print('Index position of {} is from {} to {}'.format(search,ind, range_s))

# finding index position of search words
search = 'high-level'.lower()
ind = text1.find(search)
range_s = ind + len(search)
print('Index position of {} is from {} to {}'.format(search,ind, range_s))
```

```
Index position of 1991 is from 140 to 144
Index position of philosophy is from 166 to 176
Index position of whitespace is from 237 to 247
Index position of high-level is from 25 to 35
```

```
In [65]: text.count('a')
```

```
Out[65]: 19
```

```
In [68]: text.title()
```

```
Out[68]: 'Python Is An Interpreted High-Level Programming Language For General-Purpose P
rogramming. Created By Guido Van Rossum And First Released In 1991, Python Has
A Design Philosophy That Emphasizes Code Readability, Notably Using Significant
Whitespace'
```

```
In [71]: # convert into words
text.split(sep=',')
```

```
Out[71]: ['Python is an interpreted high-level programming language for general-purpose
programming. Created by Guido van Rossum and first released in 1991',
' Python has a design philosophy that emphasizes code readability',
' notably using significant whitespace']
```

In [72]: text

Out[72]: 'Python is an interpreted high-level programming language for general-purpose programming. Created by Guido van Rossum and first released in 1991, Python has a design philosophy that emphasizes code readability, notably using significant whitespace'

In []: