

exponencial

```
In [6]: 1e0
```

```
Out[6]: 1.0
```

```
In [7]: 1e1
```

```
Out[7]: 10.0
```

```
In [8]: 1e2
```

```
Out[8]: 100.0
```

ID -- address of value

```
In [18]: i = 4  
         t = 4  
         a = 5
```

```
In [19]: print(id(i))  
         print(id(t))  
         print(id(a))
```

```
140708073944072  
140708073944072  
140708073944104
```

Indexing,

- forward indexing
- backward indexing
- step indexing

```
In [23]: str = 'hello'
```

```
In [24]: str[0]
```

```
Out[24]: 'h'
```

```
In [25]: str[3]
```

```
Out[25]: 'l'
```

```
In [26]: str
```

Out[26]: 'hello'

```
In [27]: print(str[0])  
print(str[1])  
print(str[2])  
print(str[3])  
print(str[4])
```

h
e
l
l
o

```
In [28]: print(str[-1])  
print(str[-2])  
print(str[-3])  
print(str[-4])  
print(str[-5])
```

o
l
l
e
h

```
In [29]: str
```

Out[29]: 'hello'

```
In [30]: str[0:4]
```

Out[30]: 'hell'

```
In [31]: str[1:5]
```

Out[31]: 'ello'

```
In [46]: s = 'srikaramathi'
```

```
In [43]: s[0:7]
```

Out[43]: 'srikara'

step slicing

```
In [47]: s[0:10:3]
```

Out[47]: 'skat'

```
In [48]: s
```

```
Out[48]: 'srikaramathi'
```

```
In [49]: s[0:10:3]
```

```
Out[49]: 'skat'
```

```
In [ ]: s[1:8:2]
```

```
In [51]: s[::3]
```

```
Out[51]: 'skat'
```

```
In [54]: s3= 'srikar'  
s4 = ' amathi'
```

```
In [55]: print(s3+s4)
```

```
srikar amathi
```

lab wrok

```
In [59]: str = 'SRIKAR AMATHI'
```

```
In [60]: str[len(str)-1]
```

```
Out[60]: 'I'
```

```
In [61]: str[6]
```

```
Out[61]: ' '
```

```
In [62]: str[:6]
```

```
Out[62]: 'SRIKAR'
```

```
In [64]: str[-6:]
```

```
Out[64]: 'AMATHI'
```

```
In [65]: del str
```

```
In [66]: print(str)
```

```
<class 'str'>
```

```
In [68]: s = 'srikar'  
s
```

```
Out[68]: 'srikar'
```

In [69]: `del s`

In [70]: `print(s)`

```
-----  
NameError                                Traceback (most recent call last)  
Cell In[70], line 1  
----> 1 print(s)  
  
NameError: name 's' is not defined
```

In []: