

```
In [1]: s ="My name is Sudhanshu"
```

```
In [2]: s
```

```
Out[2]: 'My name is Sudhanshu'
```

```
In [3]: s[3:10]  # from n to s
```

```
Out[3]: 'name is'
```

```
In [4]: s[3:10:1] #starting point , ending point & step size
```

```
Out[4]: 'name is'
```

```
In [5]: s[3:10:2]
```

```
Out[5]: 'nm s'
```

```
In [6]: s[10:3] # OR s[10:3:1] step size is by default 1 (+ve 1)
```

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

```
In [7]: s[10:3:-1]
```

```
Out[7]: ' si ema'
```

```
In [8]: s[10:2:-1]
```

```
Out[8]: ' si eman'
```

```
In [9]: s[10:2:-2]
```

```
Out[9]: ' iea'
```

```
In [10]: s[::-1] # reverse of "My name is Sudhanshu"
```

```
Out[10]: 'uhsnahduS si eman yM'
```

```
In [11]: s[2:-6]
```

```
Out[11]: ' name is Sud'
```

```
In [12]: s1="sudh"
```

```
In [13]: s1[-1]
```

Out[13]: 'h'

In [14]: `s1[-2]`

Out[14]: 'd'

In [15]: *# SUDH indexing could be 0,1,2,3 and -4,-3,-2,-1*

In [16]: `for i in s:  
 print(i)`

M  
y  
  
n  
a  
m  
e  
  
i  
s  
  
S  
u  
d  
h  
a  
n  
s  
h  
u

In [17]: `for i in s:  
 if i=='s':  
 print('I got S as string')  
 print(i)`

M  
y  
  
n  
a  
m  
e  
  
i  
I got S as string  
s  
  
S  
u  
d  
h  
a  
n  
I got S as string  
s  
h  
u

In [18]: `for i in s :  
 if i=="n":  
 break  
 print(i)`

```

else :
    if i=='u':
        print("last char was u")
        print("this is else condition")

```

M  
y

In [19]:

```

m = "ineuron"
mm= ""
for i in range(len(m)):
    if m[i]=="n":
        continue

    else:
        mm = mm + m[i]

```

In [20]:

mm

Out[20]: 'ieuro'

In [21]:

```

n=7
for i in range(0,n):
    for j in range(0,i+1):
        print("+", end = "")
    print("\n")

```

```

+
++
+++
++++
+++++
++++++
+++++++

```

In [22]:

```

n=int(input("Enter the number of rows:"))
for i in range(n,0,-1):
    for j in range(n-i):
        print(' ', end='')

    for j in range(2*i-1):
        print("*",end="")
    print()

```

```

Enter the number of rows:5
*****
*****
*****
***
*

```

In [23]:

```

for i in range(0,100,2):
    print(i)

```

```

0
2
4
6
8
10

```

12  
14  
16  
18  
20  
22  
24  
26  
28  
30  
32  
34  
36  
38  
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92  
94  
96  
98

In [24]: `"b"*5`

Out[24]: `'bbbbb'`

In [25]: `"_bhushan_mudliyar_"*5`

Out[25]: `'_bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar_'`

In [26]: 

```
n=int(input("Enter a num :"))
i=0
while i<n:
    print(' '* (n-i-1) + '*' + '*'*(i+1))
    i+=1
```

Enter a num :5

```
  *
 * *
* * *
* * * *
* * * * *
```

```
In [27]: l = list()
```

```
In [28]: l = ["bhushan",34565,"delhi"]
```

```
In [29]: l
```

```
Out[29]: ['bhushan', 34565, 'delhi']
```

```
In [30]: l[0]
```

```
Out[30]: 'bhushan'
```

```
In [31]: l[1]
```

```
Out[31]: 34565
```

```
In [32]: l[2]
```

```
Out[32]: 'delhi'
```

```
In [33]: type(l)
```

```
Out[33]: list
```

```
In [34]: l=["bhushan",452, "bdJm" , True, 45j+1, ["bhusha1" ,6, 3,5,"jhon", 5.8], 6.3]
```

```
In [35]: l[0:4]
```

```
Out[35]: ['bhushan', 452, 'bdJm', True]
```

```
In [36]: l[8:3]
```

```
Out[36]: []
```

```
In [37]: l[80:3:-1]
```

```
Out[37]: [6.3, ['bhusha1', 6, 3, 5, 'jhon', 5.8], (1+45j)]
```

```
In [38]: for i in l:
          if type(i)==list:
              n=0
              for j in i:
                  if type(j)==int:
                      n=n+j
              print(n)

          print(type(j))
```

```
14
<class 'float'>
```

```
In [39]: for i in range(4,10):
         print(i)
```

```
4
5
6
7
8
9
```

```
In [40]: list(range(10))
```

```
Out[40]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
```

```
In [41]: range(0,10)
```

```
Out[41]: range(0, 10)
```

```
In [42]: num=5
         m=2*num-2
         for i in range (num, -1,-1):
             for j in range(m,0,-1):
                 print(end=" ")
             m=m+1
             for j in range(0,i+1):
                 print("*", end=" ")
             print("")
```

```
 * * * * *
  * * * * 
   * * *  
    * *  
     * *  
      * 

```

```
In [44]: l = list()
```

```
In [ ]:
```

```
In [ ]:
```

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In [ ]:
```

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In [ ]:
```

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In [ ]:
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In [ ]:
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In [ ]:
```

