```
In [1]:
          1 s ="My name is Sudhanshu"
 In [2]:
          1 s
 Out[2]: 'My name is Sudhanshu'
 In [3]:
         1 s[3:10] # from n to s
 Out[3]: 'name is'
 In [4]:
         1 s[3:10:1] #starting point , ending point & step size
 Out[4]: 'name is'
 In [5]:
         1 s[3:10:2]
Out[5]: 'nm s'
 In [6]:
         1 s[10:3] # OR s[10:3:1] step size is by default 1 (+ve 1)
 Out[6]: ''
         1 s[10:3:-1]
 In [7]:
 Out[7]: ' si ema'
 In [8]:
         1 s[10:2:-1]
Out[8]: ' si eman'
 In [9]:
         1 s[10:2:-2]
Out[9]: ' iea'
         1 s[::-1] # reverse of "My name is Sudhanshu"
In [10]:
Out[10]: 'uhsnahduS si eman yM'
In [11]:
         1 s[2:-6]
Out[11]: ' name is Sud'
          1 s1="sudh"
In [12]:
In [13]:
          1 s1[-1]
Out[13]: 'h'
```

```
In [14]:
           1 s1[-2]
Out[14]: 'd'
In [15]:
           1 # SUDH indexing could be 0,1,2,3 and -4,-3,-2,-1
In [16]:
              for i in s:
           1
           2
                  print(i)
          Μ
          У
          n
          а
          m
          e
          i
          s
          S
          u
          d
          h
          а
          n
          s
          h
          u
In [17]:
              for i in s:
           1
           2
                  if i=='s':
           3
                      print('I got S as string')
           4
                  print(i)
          Μ
          У
          n
          а
          m
          e
          i
          I got S as string
          S
          u
          d
          h
          а
          n
          I got S as string
          s
         h
          u
```

```
In [24]:
              for i in s :
           1
           2
                  if i=="n":
           3
                    break
           4
                  print(i)
           5
              else :
           6
           7
                  if i=='u':
                      print("last char was u")
           8
                      print("this is else condition")
           9
          10
          11
         Μ
         У
In [2]:
           1 m = "ineuron"
             mm= ""
              for i in range(len(m)):
           3
           4
                  if m[i]=="n":
           5
                      continue
           6
           7
                  else:
           8
                      mm = mm + m[i]
In [3]:
           1 mm
Out[3]: 'ieuro'
In [5]:
           1
             n=7
           2
             for i in range(0,n):
           3
                  for j in range(0,i+1):
                      print("+", end = "")
           4
           5
                  print("\r")
         ++
         +++
         ++++
         +++++
         ++++++
```

```
for i in range(0,100,2):
In [10]:
            1
            2
                   print(i)
          0
          2
          4
          6
          8
          10
          12
          14
          16
          18
          20
          22
          24
          26
          28
          30
          32
          34
          36
          38
          40
          42
          44
          46
          48
          50
          52
          54
          56
          58
          60
          62
          64
          66
          68
          70
          72
          74
          76
          78
          80
          82
          84
          86
          88
          90
          92
          94
          96
          98
 In [5]:
               "b"*5
 Out[5]: 'bbbbb'
```

```
1 "_bhushan_mudliyar_"*5
    In [7]:
    Out[7]: '_bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar__bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_mudliyar_bhushan_bhushan_mudliyar_bhushan_mudliyar_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhushan_bhusha
                                       iyar_'
    In [9]:
                                                      n=int(input("Enter a num :"))
                                             2
                                                       i=0
                                             3
                                                       while i<n:
                                                                         print(' '*(n-i-1) + '* '*(i+1))
                                             4
                                             5
                                       Enter a num :5
    In [ ]:
                                             1 \mid 1 = list()
                                             1 | 1 = ["bhushan",34565,"delhi"]
    In [1]:
    In [2]:
                                             1 1
   Out[2]: ['sudh', 34565, 'delhi']
    In [3]:
                                             1 1[0]
   Out[3]: 'sudh'
                                             1 1[1]
    In [4]:
    Out[4]: 34565
    In [5]:
                                             1 1[2]
   Out[5]: 'delhi'
    In [6]:
                                             1 type(1)
   Out[6]: list
                                             1 l=["bhushan",452, "bdJm", True, 45j+1, ["bhusha1",6, 3,5,"jhon", 5.8], 6.3]
 In [38]:
In [40]:
                                             1 1[0:4]
Out[40]: ['bhushan', 452, 'bdJm', True]
In [41]:
                                             1 1[8:3]
Out[41]: []
```

```
In [43]:
           1 1[80:3:-1]
Out[43]: [6.3, ['bhusha1', 6, 3, 5, 'jhon', 5.8], (1+45j)]
In [39]:
           1
              for i in 1:
           2
                  if type(i)==list:
           3
                      n=0
           4
                      for j in i:
           5
                           if type(j)==int:
           6
                              n=n+j
           7
                      print(n)
           8
           9
                      print(type(j))
          10
         14
          <class 'float'>
In [44]:
           1
              for i in range(4,10):
           2
                  print(i)
         4
         5
         6
         7
         8
         9
In [45]:
           1 list(range(10))
Out[45]: [0, 1, 2, 3, 4, 5, 6, 7, 8, 9]
In [46]:
           1 range(0,10)
Out[46]: range(0, 10)
 In [ ]:
           1
```

In [ ]:

1