In [1]:
```
number=[2,3,4,5,6,7,8,9,10]
```

In [2]:
```
number
```

Out[2]:
```
[2, 3, 4, 5, 6, 7, 8, 9, 10]
```

In [3]:
```
print(number[1:5])    # ITS MEAN THAT 1 IS A STARTING INDEX NUMBER AND 5 IS A
 ENDING INDEX NUMBER ( 1 less than total index)
                      #  INDEX 1 IS 3 AND LESS THAN 1 INDEX ,MEAN THAT INDEX
 4.  THE OUTPUT IS (3,4,5,6 )
```

```
[3, 4, 5, 6]
```

In [4]:
```
print(number[0:5])
```

```
[2, 3, 4, 5, 6]
```

In [5]:
```
print(number[5:])
```

```
[7, 8, 9, 10]
```

In [6]:
```
print(number[ : ])
```

```
[2, 3, 4, 5, 6, 7, 8, 9, 10]
```

POSITIVE INDEXING

In [7]:
```
number=[ 10  ,  25 ,  32  ,  55 ,  70  ,  85  ,  95  ,  66  ,  99  ]

index    0   ,   1  ,  2   ,  3  ,   4  ,  5  ,   6  ,   7   ,   8

    indexing start from 0.
```

In [8]:
```
number
```

Out[8]:
```
[10, 25, 32, 55, 70, 85, 95, 66, 99]
```

NEGATIVE INDEXING

In [10]:
```
#index  -9  ,  -8  ,  -7  ,  -6  ,   -5  ,  -4  ,  -3  ,  -2  ,  -1      #   n
egative indexing start from -1  not 0

number=[ 10  ,  25  ,  32  ,  55  ,   70  ,  85  ,  95  ,  66  ,  99  ]
```

In [ ]:
```
#   Now we can get value both positive and negative indexing
```

In [11]:
```
number
```

Out[11]:
```
[10, 25, 32, 55, 70, 85, 95, 66, 99]
```

In [12]:
```
print(number[0])
print(number[-9])    #  SO WE GET A VALUE BOTH NEGATIVE AND POSITIVE INDEXING
```

```
10
10
```

In [18]:
```
print(number[0  : 5 ])
print(number[-9 :-4 ])
```

```
[10, 25, 32, 55, 70]
[10, 25, 32, 55, 70]
```

In [19]:
```
print(number[ :  ])

print(number[-9: ])
```

```
[10, 25, 32, 55, 70, 85, 95, 66, 99]
[10, 25, 32, 55, 70, 85, 95, 66, 99]
```

In [20]:
```
#  NOW WORKING OF POSITIVE & NEGATIVE INDEXING
```

In [23]:
```
print(number[2:8])
                      #  ITS MEAN THAT NEGATIVE INDEXING START LEFT TO WRIGHT
 print value
                      #  NOT   WRIGHT TO LEFT
print(number[-2 :-8 ])
```

```
[32, 55, 70, 85, 95, 66]
[]
```

In [24]:
```
print(number[5:])
                   #  D/F POSITIVE & NEGATIVE INDEXING
print(number[-5:])
```

```
[85, 95, 66, 99]
[70, 85, 95, 66, 99]
```

STEP IN SLICING

In [25]:
```
#  STEP MEAN GAP BETWEEN INDEXING
```

In [26]:
```
number
```

Out[26]:
```
[10, 25, 32, 55, 70, 85, 95, 66, 99]
```

In [27]:
```
print(number[1:8:2])  # 2 is step or gap b/w indexes
```
```
[25, 55, 85, 66]
```

In [28]:
```
print(number[ : : 2])
```
```
[10, 32, 70, 95, 99]
```

In [30]:
```
print(number[0:9:3])
```
```
[10, 55, 95]
```

In [32]:
```
print(number[0:9:4])
```
```
[10, 70, 99]
```

In [33]:
```
print(number[0:9:5])
```
```
[10, 85]
```

DELETE A NUMBER OR MORE NUMBER FROM SLICING

In [35]:
```
# del is a operator  NOT a function
```

In [37]:
```
del number[4]
```

In [38]:
```
number
```
Out[38]:
```
[10, 25, 32, 55, 85, 95, 66, 99]
```

In [39]:
```
del number[2:7]
```

In [41]:
```
number
```
Out[41]:
```
[10, 25, 99]
```

In [42]:
```
number
```
Out[42]:
```
[10, 25, 99]
```

In [44]:
```
#
```

In [ ]: