```
#reverse rows
   ar 2 [::-1]
de array ([[ [4.,6., 2.3 ].])
        Cg., O., 4., 6.77)
   threverse rows and columns both
   arr2[::-1,::-1]
Off. array (([1., 2., 6., 4.); [6,4.,0.,9.])
   Ly: Specific Element Extraction
   arr2
  QP: array ([[9.,0.,4.,6.7,
[u.,6.,2.,1:77)
  arr 2 [0, 17
   of: array(E[9., 0., 4., 6.9,
    arn[6:1,:)
   Off: array ([[], 0., 4., 6.])
  arr2[12,1)
 o/p.arr([9.0., 4., 6.29
         [4.,6.,2.,1.]]
```

ar2[:3:] gr: array([[9.,0.,4.,6.], ofp: arroy (([9.,0.,4.,6.])) # Past column of all Ba aret: ,:3) array[[[9.,0., 41.]) [4.,6.,2.]] arr2[:,:-1] array ([[9.,0.,4.]] [4.,6.,2.] orr2[:1;:3] #1,2 array[[[9.,0.,4.]]]

CONTRACTOR SELECTION

5 Basic Statistics

arr2

Op: array ([[9.,0.,4.,6.7, [4.,6.,2.,1.17])

arrain()

QP: 0.0

arrz. mean()

OP: 4.0

arr 2. max()

0/0.9.0

np. median (arr2)

Data Page

ETTIP CTI

DANK MIN

0/P: 4.0

arr 2. sum()

O/P: 32.0

OP: 4.0

THE A SHELL

Variance

np.var(arrz)

OP: 7.75

6. Restaping and Flattening

arr2

Op: array ([[9.,0.,4.,6.],

arr2. shape 0/P'. (2,4)

Off: array([[9.,0.]

```
[4.,6.] (1.))
     & arraireshape (1,8)
      ofp: array ([ [9.,0., 20,60,40,60,20,1-7])
    I/P: arra. reshape (8,1) : arr. 2 reshape (2,2)
                                                                                                                          1 olp:
can't resnanc array obsize 8
             array ([9.]
                                               10.7
                                                                                          into shape (2,2)
                                               [4.7,
                                               T6.7
                                              [4.7,
                                             (2),
                                              (2),
                                             (1777)
                                                                                                                             TO THE STREET, ST. STAIRT
    # single dimension
     bl=arr2. blatten()
                                                                                                     He common on
 0/P: array ([9.,0.,4.,6.,4.,6.,2.,1.])
of Ite: blinding
                  OIDIT A STATE OF THE STATE OF T
```

# mention start, stop, total no of elements # towes equalisperes np. linspace (1,10,3)	ofe: army ([1,52,4,32,4,32,1])	# starting from 10 not 0 in descending order	naprison Olb: all Ather jut 35	piter	ofe: amange(0,10,2)	op: arange(2,10) op: arange(2,10)	opp: array ([0,1,2,3,4,5,6,7,8,9])	olb: amal([0,1,2,3,4,5,6,7,8,9])	17: Random Arrays and scorpiences	
ope: anay((1,2,4,5,1)), dtgpe = inter)	Ilp: U-val, count = np un bue carry return counts= True	or 75,4,5,2,2,50, [4,4,1,7,4,57]	arr=[[1,4,5,2,25]) [14,4,1,7,45]	L-8 Unique Items and count	[0.0,0.,0.]	(10,0,0,0), (10,0,0), (10,0,0)	np. zers((2,3,47)	anay([1,55,10])	dr. amay ([1, 5:5, 10.])	