```
import numpy as np
```

```
np.arange(1,15)
```

```
array([ 1,  2,  3,  4,  5,  6,  7,  8,  9, 10, 11, 12, 13, 14])
```

```
a=np.array([[1,2,3],[4,5,6],[7,8,9]])
a
```

```
array([[1, 2, 3],
       [4, 5, 6],
       [7, 8, 9]])
```

```
a.shape
```

```
(3, 3)
```

```
a.size
```

```
9
```

```
arr1 = np.ones((2,2,2))
arr1
arr2=np.
```

```
array([[[1., 1.],
        [1., 1.]],

       [[1., 1.],
        [1., 1.]]])
```

```
arr1=np.array(([[[1,2,3],[6,7,8],[11,12,13]]]))
print(arr1)
print(arr1.shape)
```

```
[[[ 1  2  3]
  [ 6  7  8]
  [11 12 13]]]
(1, 3, 3)
```

```
arr1.reshape(3, 3)
```

```
array([[ 1,  2,  3],
       [ 6,  7,  8],
       [11, 12, 13]])
```

```
ar=np.zeros((4,5))
ar1=np.full((4,5),1)
print(ar)
print(ar1)
```

```
[[0. 0. 0. 0. 0.]
 [0. 0. 0. 0. 0.]
 [0. 0. 0. 0. 0.]
 [0. 0. 0. 0. 0.]]
[[1 1 1 1 1]
 [1 1 1 1 1]
 [1 1 1 1 1]
 [1 1 1 1 1]]
```

```
ar.dtype
```

```
dtype('float64')
```

Start coding or generate with AI.

```
  File "/tmp/ipython-input-3599295627.py", line 1
    ar[0::0:1]
            ^
SyntaxError: invalid syntax
```

Next steps: Explain error

```
import pandas as pd



tuple=(14,15,16,17,18)
list=[1,2,3,4,5]
s1=pd.Series(list,index=tuple)
s2=pd.Series(tuple,index=list)
print(s1)
print(s2)
```

```
14    1
15    2
16    3
17    4
18    5
dtype: int64
1    14
2    15
3    16
4    17
5    18
dtype: int64
```

```
dict={
    'marks':np.random.randint(1,100,10),
    'cgpa':np.random.randn(10)
}
df=pd.DataFrame(dict)
df
```

	marks	cgpa
0	86	0.779799
1	87	1.091805
2	28	-0.040758
3	77	-0.353739
4	58	1.982364
5	18	1.964268
6	10	0.045518
7	92	0.685936
8	63	1.178523
9	64	-0.138167

Next steps: Generate code with df View recommended plots New interactive sheet

```
d2={
    'name':['preeti','rohit','omkar','kalyani','monty','aditya','gaytri','supriya'],
    'marks':np.random.randint(1,100,8), # Changed 10 to 8 to match the number of names
    'cgpa':np.random.randint(1,10,8)} # Changed 10 to 8 to match the number of names
df=pd.DataFrame(d2)
df
```

```
---------------------------------------------------------------------------
NameError                                 Traceback (most recent call last)
/tmp/ipython-input-4189201913.py in <cell line: 0>()
      1 d2={
      2     'name':['preeti','rohit','omkar','kalyani','monty','aditya','gaytri','supriya'],
----> 3     'marks':np.random.randint(1,100,8), # Changed 10 to 8 to match the number of names
      4     'cgpa':np.random.randint(1,10,8)} # Changed 10 to 8 to match the number of names
      5 df=pd.DataFrame(d2)

NameError: name 'np' is not defined
```

Next steps: Explain error

Start coding or generate with AI.

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