

```
str="Hi how are you"
print(str.split())
```

```
['Hi', 'how', 'are', 'you']
```

```
planet = "Earth"
diameter = 12742
a="The diameter of {planet} is {diameter} kilometers"
print(a.format(planet="Earth",diameter = 12742))
```

The diameter of Earth is 12742 kilometers

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':
[1,2,3,'hello']}]}}}
print(d)
```

```
{'k1': [1, 2, 3, {'tricky': ['oh', 'man', 'inception', {'target': [1,
2, 3, 'hello']}]}]}
```

```
import numpy as np
b=np.zeros(10)*0
print(b)
```

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

```
b=np.ones(10)*5
print(b)
```

```
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

```
ar=np.arange(20,35,2)
print(ar)
```

```
[20 22 24 26 28 30 32 34]
```

```
a=np.arange(0,9).reshape(3,3)
print(a)
```

```
[[0 1 2]
 [3 4 5]
 [6 7 8]]
```

```
arr1=np.array([1,2,3])
arr2=np.array([4,5,6])
arr=np.concatenate((arr1,arr2))
print(arr)
```

```
[1 2 3 4 5 6]
```

```
import pandas as pd
data=[{'a':12,'b':45},{ 'a':54,'b':23},{ 'a':94,'b':76}]
df=pd.DataFrame(data)
print(df)
```

```

      a    b
0  12  45
1  54  23
2  94  76

```

```

a=pd.date_range(start='1/1/2023',end='10/2/2023')
print(a)

```

```

DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03', '2023-01-04',
               '2023-01-05', '2023-01-06', '2023-01-07', '2023-01-08',
               '2023-01-09', '2023-01-10',
               ...,
               '2023-09-23', '2023-09-24', '2023-09-25', '2023-09-26',
               '2023-09-27', '2023-09-28', '2023-09-29', '2023-09-30',
               '2023-10-01', '2023-10-02'],
              dtype='datetime64[ns]', length=275, freq='D')

```

```

lst=[[1,'aaa',22],[2,'bbb,25'],[3,'ccc',24]]
df=pd.DataFrame(lst)
print(df)

```

```

      0      1      2
0  1      aaa  22.0
1  2  bbb,25   NaN
2  3      ccc  24.0

```