```
s = "Hi there Sam!"
s.split()
```

```
['Hi', 'there', 'Sam!']
```

Use .format() to print the following string.

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

```
The diameter of Earth is 12742 kilometers.
```

In this nest dictionary grab the word "hello"

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

```
'hello'
```

Numpy

```
import numpy as np
```

Create an array of 10 zeros?

```
a = np.zeros(10)
a
```

```
array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])
```

Create an array of 10 fives?

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

```
array([5., 5., 5., 5., 5., 5., 5., 5., 5., 5.])
```

Create an array of all the even integers from 20 to 35

```
A = np.arange(20,35,2)
A
```

```
array([20, 22, 24, 26, 28, 30, 32, 34])
```

Create a 3x3 matrix with values ranging from 0 to 8

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

```
array([[0, 1, 2],
       [3, 4, 5],
       [6, 7, 8]])
```

Concatenate a and b a = np.array([1, 2, 3]), b = np.array([4, 5, 6])

```
a = np.array([1,2,3])
b = np.array([4,5,6])
np.concatenate((a,b),axis=0)
```

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

Pandas Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
d = {"name":["aswini","swasthi","swetha"],"age":[20,20,20]}
df = pd.DataFrame(d)
df
```

	name	age
0	aswini	20
1	swasthi	20
2	swetha	20

Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

```
P = pd.date_range(start='1-1-2023',end='10-2-2023')
for val in P:
  print(val)
```

```
2023-08-05 00:00:00
2023-08-06 00:00:00
2023-08-07 00:00:00
2023-08-08 00:00:00
2023-08-09 00:00:00
2023-08-10 00:00:00
2023-08-11 00:00:00
2023-08-12 00:00:00
2023-08-13 00:00:00
2023-08-14 00:00:00
2023-08-15 00:00:00
2023-08-16 00:00:00
2023-08-17 00:00:00
```

```
2023-08-18 00:00:00
2023-08-19 00:00:00
2023-08-20 00:00:00
2023-08-21 00:00:00
2023-08-22 00:00:00
2023-08-23 00:00:00
2023-08-24 00:00:00
2023-08-25 00:00:00
2023-08-26 00:00:00
2023-08-27 00:00:00
2023-08-28 00:00:00
2023-08-29 00:00:00
2023-08-30 00:00:00
2023-08-31 00:00:00
2023-09-01 00:00:00
2023-09-02 00:00:00
2023-09-03 00:00:00
2023-09-04 00:00:00
2023-09-05 00:00:00
2023-09-06 00:00:00
2023-09-07 00:00:00
2023-09-08 00:00:00
2023-09-09 00:00:00
2023-09-10 00:00:00
2023-09-11 00:00:00
2023-09-12 00:00:00
2023-09-13 00:00:00
2023-09-14 00:00:00
2023-09-15 00:00:00
2023-09-16 00:00:00
2023-09-17 00:00:00
2023-09-18 00:00:00
2023-09-19 00:00:00
2023-09-20 00:00:00
2023-09-21 00:00:00
2023-09-22 00:00:00
2023-09-23 00:00:00
2023-09-24 00:00:00
2023-09-25 00:00:00
2023-09-26 00:00:00
2023-09-27 00:00:00
2023-09-28 00:00:00
2023-09-29 00:00:00
2023-09-30 00:00:00
2023-10-01 00:00:00
```

Create 2D list to DataFrame lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

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

	0	1	2

Double-click (or enter) to edit

Double-click (or enter) to edit

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