▼ 1. Split this string

```
s = "Hi there Sam!"
```

Basic Python

```
s="Hi there Sam!"
a=s.split()
print(a)
    ['Hi', 'there', 'Sam!']
```

→ 2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

```
planet = "Earth"
diameter = 12742

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

The diameter of Earth is 12742 kilometers
```

→ 3. In this nest dictionary grab the word "hello"

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

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

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
import numpy as np
arr = np.zeros(10)
print(arr)

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

import numpy as np
arr = np.zeros(10)+5
print(arr)

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

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

```
import numpy as np
array=np.arange(20,35,2)
print("Array of all the even integers from 20 to 35")
print(array)

Array of all the even integers from 20 to 35
  [20 22 24 26 28 30 32 34]
```

→ 6. Create a 3x3 matrix with values ranging from 0 to 8

```
import numpy as np
x = np.arange(0, 9).reshape(3,3)
print(x)

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

▼ 7. Concatenate a and b

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

```
import numpy as np
a = np.array([1, 2, 3])
b = np.array([4, 5, 6])
c = np.concatenate((a, b), axis = None)
print (c)
    [1 2 3 4 5 6]
```

Pandas

▼ 8. Create a dataframe with 3 rows and 2 columns

→ 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

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

▼ 10. Create 2D list to DataFrame

1 2 bbb 25 2 3 ccc 24

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