Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

x = s.split()
print(x)
    ['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

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

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

Numpy

```
import numpy as np
```

▼ 4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

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

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

▼ 7. Concatenate a and b

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

→ Pandas

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

0.089249 0.578729

2 0.151687 0.772689

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

```
s = pd.date_range(start = '01-01-2023', end = '02-10-2023')
series=pd.Series(s)
series
          2023-01-01
     1
          2023-01-02
     2
          2023-01-03
     3
          2023-01-04
          2023-01-05
     5
          2023-01-06
     6
          2023-01-07
     7
          2023-01-08
     8
          2023-01-09
     9
          2023-01-10
     10
          2023-01-11
     11
          2023-01-12
     12
          2023-01-13
     13
          2023-01-14
     14
          2023-01-15
     15
          2023-01-16
     16
          2023-01-17
     17
          2023-01-18
          2023-01-19
     18
          2023-01-20
```

```
20
     2023-01-21
21
     2023-01-22
     2023-01-23
22
23
     2023-01-24
24
     2023-01-25
25
     2023-01-26
26
     2023-01-27
27
     2023-01-28
     2023-01-29
28
29
     2023-01-30
30
     2023-01-31
31
     2023-02-01
32
     2023-02-02
33
     2023-02-03
34
     2023-02-04
35
     2023-02-05
     2023-02-06
36
37
     2023-02-07
38
     2023-02-08
39
     2023-02-09
     2023-02-10
40
dtype: datetime64[ns]
```

▼ 10. 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

 0
 [1, aaa, 22]
 [2, bbb, 25]
 [3, ccc, 24]

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