Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"
s.split()
['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 {planet} is {diameter} kilometers.'.format(planet=planet,diameter=d)
    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?

```
np.zeros(10)
    array([0., 0., 0., 0., 0., 0., 0., 0., 0.])

5*np.ones(10)
    array([5., 5., 5., 5., 5., 5., 5., 5., 5.])
```

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

```
a = []
for i in range(20,35):
   if(i%2==0):
      a.append(i)
a

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

→ 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])

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

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

import pandas as pd

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

```
0 10 1 aaa1 2 bbb2 3 ccc
```

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

▼ 10. Create 2D list to DataFrame

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
```

	0	1	2	1
0	1	aaa	22	
1	2	bbb	25	
2	3	CCC	24	

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