→ 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(planet,diameter))
    the diameter of Earth is 12742 kilometers
```

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

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
array=np.zeros(10)
print(array)

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

array=np.ones(10)*5
print(array)

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

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

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

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

```
arr3=np.concatenate((arr1,arr2),axis=0)
print(arr3)
[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

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

> 08-02-23 09-02-23 10-02-23

▼ 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]]

import pandas as pd

df = pd.DataFrame(lists)

df
```

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

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