→ Basic Python

▼ 1. Split this string

```
Output should be a List: ['Hi', 'there', 'Sam!']

s = "Hi there Sam!"

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

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

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

2002//[20 22 24 26 28 30 32 34]\
```



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

```
n=np.arange(9).reshape(3,3)
print(n)
    [[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])

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

▼ 10. Create 2D list to DataFrame

1 2 bbb 25 2 3 ccc 24

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