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 {} 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?

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

```
ArrE = np.arange(20,35,2)
print('The Array of Even Integers (20-35): ', ArrE)
The Array of Even Integers (20-35): [20 22 24 26 28 30 32 34]
```

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

```
Mat = np.arange(0,9).reshape(3,3)
print('3x3 Matrix:\n'); print(Mat)

3x3 Matrix:

[[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])
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
```

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

```
Dates = pd.date_range('1-1-2023', '2-10-2023')
print('The Dates: ')
for i in Dates:
    print(i)
     The Dates:
     2023-01-01 00:00:00
     2023-01-02 00:00:00
     2023-01-03 00:00:00
     2023-01-04 00:00:00
     2023-01-05 00:00:00
     2023-01-06 00:00:00
     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

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

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

pd.DataFrame(lists, columns = ['Si.No.', 'String', 'Number'])

	Si.No.	String	Number	1
0	1	aaa	22	
1	2	bbb	25	
2	3	ccc	24	

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