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.

→ 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

→ 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
```

```
data=[[73,"A"],[74,"B"],[75,"C"]]
a=pd.DataFrame(data=data,columns=["Number","Name"],index=["1","2","3"])
a
```

	Number	Name	1
1	73	Α	
2	74	В	
3	75	С	

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

```
a = pd.date_range(start ='1-1-2023', end ='2-10-2023')

DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03', '2023-01-04', '2023-01-05', '2023-01-06', '2023-01-07', '2023-01-08', '2023-01-09', '2023-01-10', '2023-01-11', '2023-01-12', '2023-01-13', '2023-01-14', '2023-01-15', '2023-01-16', '2023-01-17', '2023-01-18', '2023-01-19', '2023-01-20', '2023-01-21', '2023-01-22', '2023-01-23', '2023-01-24', '2023-01-25', '2023-01-26', '2023-01-27', '2023-01-28', '2023-02-02', '2023-02-03', '2023-02-04', '2023-02-01', '2023-02-06', '2023-02-07', '2023-02-08', '2023-02-09', '2023-02-10'], dtype='datetime64[ns]', freq='D')
```

▼ 10. Create 2D list to DataFrame

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

pd.DataFrame(data=lists)

	0	1	2	10-
0	1	aaa	22	
1	2	bbb	25	
2	3	ccc	24	

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