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

The diameter of earth is 12742 kilometers

print("The diameter of earth is {diameter} kilometers".format(diameter=12742))

The diameter of earth is 12742 kilometers
```

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

Numpy

```
import numpy as np
```

import numpy as np

- - 4.2 Create an array of 10 fives?

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

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

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

```
print(np.arange(20,35,2))
     [20 22 24 26 28 30 32 34]
```

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

→ 7. Concatinate a and b

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

Pandas

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

```
import pandas as pd

a=pd.DataFrame()
print(a)

Empty DataFrame
Columns: []
Index: []
```

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

```
import datetime
import pandas
test_date = datetime.datetime.strptime("01-01-2023", "%d-%m-%Y")
K = 41
date generated = pd.date range(test date, periods=K)
print(date_generated.strftime("%d-%m-%Y"))
     Index(['01-01-2023', '02-01-2023', '03-01-2023', '04-01-2023', '05-01-2023',
            '06-01-2023', '07-01-2023', '08-01-2023', '09-01-2023', '10-01-2023',
            '11-01-2023', '12-01-2023', '13-01-2023', '14-01-2023', '15-01-2023',
            '16-01-2023', '17-01-2023', '18-01-2023', '19-01-2023', '20-01-2023',
            '21-01-2023', '22-01-2023', '23-01-2023', '24-01-2023', '25-01-2023',
            '26-01-2023', '27-01-2023', '28-01-2023', '29-01-2023', '30-01-2023',
            '31-01-2023', '01-02-2023', '02-02-2023', '03-02-2023', '04-02-2023',
            '05-02-2023', '06-02-2023', '07-02-2023', '08-02-2023', '09-02-2023',
            '10-02-2023'],
           dtype='object')
```

▼ 10. Create 2D list to DataFrame

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

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