→ 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

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

The diameter of Earth is 12742 kilometers.

planet = "Earth"
diameter = 12742
```

→ 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("An array of 10 zeros:")
print(array)

An array of 10 zeros:
    [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

array=np.ones(10)*5
print("An array of 10 fives:")
print(array)

An array of 10 fives:
    [5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```
array=np.arange(20,35,2)
print("Array of all the even integers from 20 to 35")
print(array)

Array of all the even integers from 20 to 35
[20 22 24 26 28 30 32 34]
```

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

```
x = np.arange(0, 9).reshape(3,3)
print(x)

[[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])
```

```
x = np.concatenate((a, b), axis = 0)
print (x)
[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

▼ 10. Create 2D list to DataFrame

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