## Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"
print(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

txt1 = "The diameter of {0} is {1} kilometers.".format(planet,diameter)
print(txt1)
The diameter of Earth is 12742 kilometers.
```

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

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]
a = d['k1'][3]['tricky'][3]['target'][3]
print(a)
hello
```

## Numpy

```
import numpy as np
```

## 4.2 Create an array of 10 fives?

```
ten_zeros = np.zeros(10)
print(ten_zeros)
      [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

ten_five = np.ones(10)*5
print(ten_five)
      [5. 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)
array1 = (array%2 == 0)
out = array[array1]
print(out)

[20 22 24 26 28 30 32 34]
```

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

```
matrix = np.arange(0,9).reshape((3,3))
print(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])
a_b = np.concatenate((a,b))
print(a_b)

[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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