Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

print(s.split())
    ['Hi', 'there', 'Sam!']

italicized text ## 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 {} kilometer.".format(planet,diameter))
    The diameter of Earth is 12742 kilometer.
```

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

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

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

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

print(np.ones(10)*5)
     [5. 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(10,25,5))
[10 15 20]
```

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

```
print(np.arange(0,9).reshape(3,3))
    [[0 1 2]
      [3 4 5]
      [6 7 8]]
```

▼ 7. Concatinate 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])
print(np.concatenate([a,b]))

[1 2 3 4 5 6]
```

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

```
import pandas as pd

data = [10,20,30]
```

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

▼ 10. Create 2D list to DataFrame

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