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- 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

print("The diameter of",planet,"is",diameter,"kilometers.")
    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']}]}]}
print(d['k1'][3]['tricky'][3]['target'][3])
hello
```

Numpy

```
import numpy as np
```

- ▼ 4.1 Create an array of 10 zeros?
 - 4.2 Create an array of 10 fives?

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

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

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

```
import numpy as np
array = np.arange(20,35,2)
print(array)

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

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

```
import numpy as v
matrix = v.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])

```
import numpy as np
a = np.array([1,2,3])
b = np.array([4,5,6])
c = np.concatenate((a,b))
print(c)

[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

```
'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

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