→ 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.

→ 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?

```
array=np.zeros(10)
print(array)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

array1=np.ones(10)*5
print(array1)

[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(20,36,2)
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]
```

Double-click (or enter) to edit

→ 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. 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])
c=np.concatenate((a,b),axis=0)
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

▼ 10. Create 2D list to DataFrame

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

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

```
df=pd.DataFrame(lists,columns=['num','word','number'])
print(df)
```

	num	word	number	
0	1	aaa	22	
1	2	bbb	25	
2	3	ccc	24	

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