Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

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

txt='The diameter of {planet} is {diameter} kilometers.'
txt.format(planet=planet, diameter=diameter)

'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']}]}}
seq=d['k1'][3]['tricky'][3]['target'][3]
seq
'hello'
```

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
arr=np.array([0]*10)
arr

array([0, 0, 0, 0, 0, 0, 0, 0])

arr=np.array([5]*10)
arr

array([5, 5, 5, 5, 5, 5, 5, 5, 5])
```

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

```
arr=np.arange(20,35,2)
arr
array([20, 22, 24, 26, 28, 30, 32, 34])
```

→ 6. Create a 3x3 matrix with values ranging from 0 to 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])
np.concatenate((a,b),axis=0)
array([1, 2, 3, 4, 5, 6])
```

→ Pandas

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

```
import pandas as pd

data=np.arange(10,16).reshape(3,2)
df=pd.DataFrame(data,columns=["C1","C2"])
df
```

```
C1 C2
0 10 11
1 12 13
2 14 15
```

▼ 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]]
```

lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists,columns=["sno","name","age"])

	sno	name	age	1
0	1	aaa	22	
1	2	bbb	25	
2	3	CCC	24	

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