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

planet = 'Earth'
diameter = 12742
print('The diameter of {} is {} kilometers.' .format(planet,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']}]}]

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?

```
import numpy as np
np.zeros(5)

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

np.zeros(10)

array([0., 0., 0., 0., 0., 0., 0., 0., 0., 0.])
```

▼ 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 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]
```

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

```
import numpy as np
x = np.arange(0,9).reshape(3,3)
print(x)

[[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
```

→ Pandas

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

	Name	Age	1
0	Sethuraman	44	
1	Uma	42	
2	Swetha	20	

▼ 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]]
import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
df = pd.DataFrame(lists, columns =['d1', 'd2', 'd3'])
print(df)
             d2 d3
        d1
     0
         1
            aaa
                 22
     1
         2 bbb
                 25
            ccc 24
```

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