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 {0} is {1} 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']}]}]

a = list(d.values())
b = list(a[-1][-1].values())
c = list(b[-1][-1].values())
print(c[-1][-1])
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.full((1,10),5))
      [[5 5 5 5 5 5 5 5 5 5]]
```

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

```
a = [i for i in range(20,35,2)]
print(a)
[20, 22, 24, 26, 28, 30, 32, 34]
```

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

```
m = np.arange(0,9)
print(m.reshape(3,3))

[[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])

```
x = np.array([1,2,3])
y = np.array([4,5,6])
print(np.concatenate([x,y]))

[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]]

print(pd.DataFrame(lists))
```

0 1 20 1 aaa 221 2 bbb 252 3 ccc 24

Colab paid products - Cancel contracts here

✓ 0s completed at 9:45 PM

×