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.

```
planet = "Earth"
diameter = 12742

op="The diameter of {} is {} kilometers"
print(op.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']}]}]

lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7]
print(lst[3][1][2][0])
    hello
```

Numpy

```
import numpy as np
```

4.2 Create an array of 10 fives?

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

```
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

```
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])

```
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 = [['kalvi',23],['ram',25],['ramu',27]]
df = pd.DataFrame(data,columns=['Name','Age'])
print(df)

          Name Age
          0 kalvi 23
          1 ram 25
          2 ramu 27
```

9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

```
d=pd.date_range(start='01-01-2023',end='02-02-2023')
s=pd.Series(d)
print(s)
          2023-01-01
     1
          2023-01-02
     2
          2023-01-03
     3
          2023-01-04
     4
          2023-01-05
     5
          2023-01-06
     6
          2023-01-07
     7
          2023-01-08
     8
          2023-01-09
     9
          2023-01-10
     10
          2023-01-11
     11
          2023-01-12
     12
          2023-01-13
          2023-01-14
     13
     14
          2023-01-15
     15
          2023-01-16
     16
          2023-01-17
     17
          2023-01-18
     18
          2023-01-19
     19
          2023-01-20
     20
          2023-01-21
     21
          2023-01-22
     22
          2023-01-23
     23
          2023-01-24
     24
          2023-01-25
     25
          2023-01-26
     26
          2023-01-27
     27
          2023-01-28
     28
          2023-01-29
```

```
29 2023-01-30
30 2023-01-31
31 2023-02-01
32 2023-02-02
dtype: datetime64[ns]
```

▼ 10. Create 2D list to DataFrame

	0	1	2	1
0	1	aaa	22	
1	2	bbb	25	
2	3	ccc	24	

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