1. Split this string

```
[ ] s = "Hi there Sam!"

[ ] s = s.split(" ")
s

['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} kilo

The diameter of Earth is 12742 kilom

3. In this nest dictionary grab the word "hello"

Numpy

```
[ ] import numpy as np
```

- 4.1 Create an array of 10 zeros?
 - 4.2 Create an array of 10 fives?

```
[ ] import numpy as np
```

4.1 Create an array of 10 zeros?4.2 Create an array of 10 fives?

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

```
[ ] arr = np.arange(20,36,2)
arr

array([20, 22, 24, 26, 28, 30, 32, 34])
```

7. Concatenate a and ba = 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])
c
array([1, 2, 3, 4, 5, 6])
```

Pandas

8. Create a dataframe with 3

```
[ ] A = np.random.randint(10, size=(3,2))
    df = pd.DataFrame(A)
    df
```

```
0 10 61 4 92 8 0
```

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



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Connect

Generate the series of dates

 $+ \leftrightarrow + \pi$

from 1st Jan, 2023 to 10th Feb, 2023

```
[ ] dates = pd.date_range(start ='1-1-2023
             end = '02-10-2023')
    for i in dates :
     print(i)
```

```
2023-01-02 00:00:00
2023-01-03 00:00:00
2023-01-04 00:00:00
2023-01-05 00:00:00
2023-01-06 00:00:00
2023-01-07 00:00:00
2023-01-08 00:00:00
2023-01-09 00:00:00
2023-01-10 00:00:00
2023-01-11 00:00:00
2023-01-12 00:00:00
2023-01-13 00:00:00
2023-01-14 00:00:00
2023-01-15 00:00:00
2023-01-16 00:00:00
```

2023-01-17 00:00:00 2023-01-18 00:00:00 2023-01-19 00:00:00 2023-01-20 00:00:00

2023-01-22 00:00:00 2023-01-23 00:00:00 2023-01-24 00:00:00

00:00:00

 $nn \cdot nn \cdot nn$

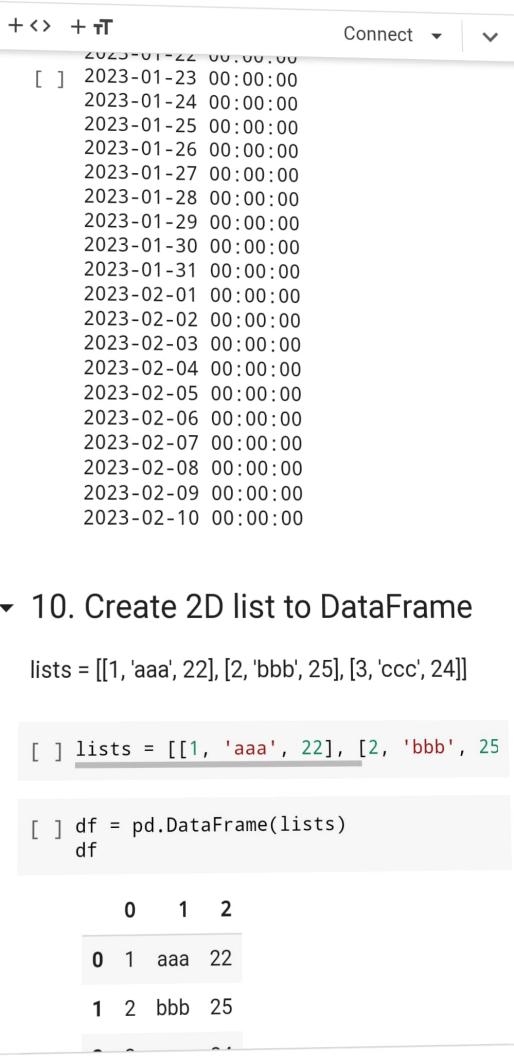
<

2023-01-21

2022 01 25

 \equiv

2023-01-01 00:00:00



0 1 2

1 aaa 22

2 bbb 25

3 ccc 24