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

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"

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
arr0=np.zeros(10)
print(arr0)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

arr5=5*np.ones(10)
print(arr5)

[5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```
arr_even_integers=np.arange(20,35,2)
print(arr_even_integers)

[20 22 24 26 28 30 32 34]
```

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

```
m3 = np.arange(0,9).reshape(3,3)
print(m3)

[[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=None)
array([1, 2, 3, 4, 5, 6])
```

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

```
import pandas as pd
```

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

```
import datetime
day_from = datetime.timedelta(days=1)
start_date=datetime.date(2023,1,1)
end_date=datetime.date(2023,2,10)
for i in range((end_date - start_date).days):
  print(start_date + i*day_from)
     2023-01-01
     2023-01-02
     2023-01-03
     2023-01-04
     2023-01-05
     2023-01-06
     2023-01-07
     2023-01-08
     2023-01-09
     2023-01-10
     2023-01-11
     2023-01-12
     2023-01-13
     2023-01-14
     2023-01-15
     2023-01-16
     2023-01-17
     2023-01-18
     2023-01-19
     2023-01-20
     2023-01-21
     2023-01-22
     2023-01-23
     2023-01-24
     2023-01-25
     2023-01-26
     2023-01-27
     2023-01-28
     2023-01-29
```

2023-01-30

```
2023-01-31
2023-02-01
2023-02-02
2023-02-03
2023-02-04
2023-02-05
2023-02-06
2023-02-07
2023-02-08
2023-02-09
```

▼ 10. Create 2D list to DataFrame

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