Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"
string="Hi there Sam!"
print(string.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="Enter"
diameter=12742
'The diameterof{} is {} kilogramers.'.format(planet,diameter)

'The diameterofEnter is 12742 kilogramers.'
```

→ 3. In this nest dictionary grab the word "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

```
print(np.arange(20,36,2))
  [20 22 24 26 28 30 32 34]
```

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

▼ 7. Concatenate a and b

```
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
```

```
import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
c=np.concatenate((a,b))
print(c)

[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

```
import datetime
# The size of each step in days
day_delta = datetime.timedelta(days=1)
start_date = datetime.datetime.strptime("01-1-2023", "%d-%m-%Y")
end_date = start_date + 41*day_delta
for i in range((end date - start date).days):
    print(start date + i*day delta)
     2023-01-01 00:00:00
     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
2023-01-21 00:00:00
2023-01-22 00:00:00
2023-01-23 00:00:00
2023-01-24 00:00:00
2023-01-25 00:00:00
2023-01-26 00:00:00
2023-01-27 00:00:00
2023-01-28 00:00:00
2023-01-29 00:00:00
2023-01-30 00:00:00
2023-01-31 00:00:00
2023-02-01 00:00:00
2023-02-02 00:00:00
2023-02-03 00:00:00
2023-02-04 00:00:00
2023-02-05 00:00:00
2023-02-06 00:00:00
2023-02-07 00:00:00
2023-02-08 00:00:00
2023-02-09 00:00:00
2023-02-10 00:00:00
```

▼ 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]]
d_list=pd.DataFrame(lists, columns=['A', 'B', 'C'])
d_list
```

```
A B C0 1 aaa 221 2 bbb 252 3 ccc 24
```

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