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

x=" The diameter of {planet} is {diameter} kilometers.".format(planet = 'Earth', diameter= print(x)

The diameter of Earth is 12742 kilometers.
```

→ 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?

```
array=np.arange(30,71,2)
print("Array of all the even integers from 30 to 70")
print(array)

Array of all the even integers from 30 to 70
  [30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70]

x = np.arange(2, 11).reshape(3,3)
print(x)

[[ 2  3   4]
  [ 5  6  7]
  [ 8  9 10]]
```

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

```
import numpy as np
array=np.arange(30,71,2)
print("Array of all the even integers from 30 to 70")
print(array)

Array of all the even integers from 30 to 70
  [30 32 34 36 38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70]
```

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

▼ 7. Concatinate 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
import pandas as pd
df = pd.DataFrame()
print(df)

Empty DataFrame
Columns: []
Index: []
```

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

```
import datetime
import pandas as pd
test_date = datetime.datetime.strptime("01-01-2023","%d-%m-%Y")
K=41
date_generated = pd.date_range(test_date,periods=K)
print(date_generated.strftime("%d-%m-%Y"))

Index(['01-01-2023', '02-01-2023', '03-01-2023', '04-01-2023', '05-01-2023', '06-01-2023', '07-01-2023', '08-01-2023', '09-01-2023', '10-01-2023', '11-01-2023', '12-01-2023', '13-01-2023', '14-01-2023', '15-01-2023', '16-01-2023', '17-01-2023', '18-01-2023', '19-01-2023', '20-01-2023', '21-01-2023', '22-01-2023', '23-01-2023', '24-01-2023', '25-01-2023', '26-01-2023', '27-01-2023', '28-01-2023', '29-01-2023', '30-01-2023', '31-01-2023', '06-02-2023', '02-02-2023', '03-02-2023', '04-02-2023', '05-02-2023', '06-02-2023', '07-02-2023', '08-02-2023', '09-02-2023', '10-02-2023', 'dtype='object')
```

▼ 10. Create 2D list to DataFrame

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
```

2

3

bbb

ССС

25

24

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