## 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.

→ 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

→ 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])

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

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

```
import pandas as pd
```

```
data = [['Mahadevan', 'CSE'], ['Selvamani', 'CSE'], ['Vikram', 'CSE']]

df = pd.DataFrame(data, columns=['NAME', 'BRANCH'])

print(df)

NAME BRANCH

0 Mahadevan CSE

1 Selvamani CSE

2 Vikram CSE
```

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

## ▼ 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]]
df = pd.DataFrame(lists, columns =['d1', 'd2','d3'])
print(df)
        d1
              d2
                  d3
             aaa
                  22
                  25
     1
         2
            bbb
         3
            CCC
                  24
```

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