# Basic Python

## ▼ 1. Split this string

```
s = "Hi there Sam!"

sentence = "Hi there sem!"
words = sentence.split()
words

['Hi', 'there', 'sem!']
```

→ 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

```
array=np.arange(20,35)
print("Array of all the even integers from 20 to 35")
print(array)

Array of all the even integers from 20 to 35
  [20 21 22 23 24 25 26 27 28 29 30 31 32 33 34]
```

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

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

[[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=0)
array([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

- ▼ 10. Create 2D list to DataFrame
  - 1. List item
  - 2. List item

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

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

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df = pd.DataFrame(lists)
df
```

	0	1	2
0	1	aaa	22
1	2	bbb	25
2	3	CCC	24

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