## 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

txt='The diameter of {} is {} kilometers.'
txt.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?

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

```
np.arange(20,35,2)
array([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])

```
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

→ 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]]
pd.DataFrame(lists,columns=['Id','name','marks'])

	Id	name	marks
0	1	aaa	22
1	2	bbb	25
2	3	CCC	24

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