### ▼ 1. Split this string

```
s = "Hi there Sam!"

s = "Hi there Sam!"
g=s.split()
g

['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
```

# Basic Python

→ 3. In this nest dictionary grab the word "hello"

```
d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]

d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]}

d['k1'][3]['tricky'][3]['target'][3]

'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

```
import numpy as np
array=np.arange(20,35,2)
print("Array of all the even integers from 30 to 70")
array

Array of all the even integers from 30 to 70
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])
```

```
import numpy as np
a=np.array([1,2,3])
b=np.array([4,5,6])
array=np.concatenate((a,b),axis=0)
array
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

A=['a','b','c']

DataFrame=pd.DataFrame(A,columns=['alphabets'])
DataFrame
```

	alphabets
0	а
1	b
2	С

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

```
2 Apr 2018
3 May 2019
dtype: object
```

#### New dates:

```
0 2015-01-11
1 2017-03-11
2 2018-04-11
3 2019-05-11
```

dtype: datetime64[ns]

### ▼ 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
```

	Α	В	C
0	1	aaa	22
1	2	bbb	25
2	3	CCC	24

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