## Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"
s = "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

planet = "Earth"
diameter = 12742
print('The diameter of {} is {} kilometers.'.format(planet,diameter));
    The diameter of Earth is 12742 kilometers.
```

→ 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']}]}]

print(d['k1'][3]["tricky"][3]['target'][3])

hello
```

Numpy

```
import numpy as np
```

▼ 4.1 Create an array of 10 zeros?

## 4.2 Create an array of 10 fives?

```
import numpy as np
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)

An array of 10 fives:
    [5. 5. 5. 5. 5. 5. 5. 5. 5.]

import numpy as np
array=np.arange(20,36,2)
print("An array of all the integers from 30 to 70:")
print(array)

An array of all the integers from 30 to 70:
    [20 22 24 26 28 30 32 34]
```

▼ 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

```
import numpy as np
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.stack((a,b),axis=1)
```

```
array([[1, 4],
[2, 5],
[3, 6]])
```

## Pandas

0

2023

srivishnu

srinithi gayathri

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

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2 srivignesh 799. Generate the series of dates from 1st Jan, 2023 to 10th Feb,

2022-09-24 2022-09-25 2022-09-26 2022-09-27 2022-09-28 2022-09-29 2022-09-30 2022-10-01 2022-10-02 2022-10-03 2022-10-04 2022-10-05 2022-10-06 2022-10-07 2022-10-08 2022-10-09 2022-10-10 2022-10-11 2022-10-12 2022-10-13 2022-10-14 2022-10-15 2022-10-16 2022-10-17 2022-10-18 2022-10-19 2022-10-20 2022-10-21 2022-10-22 2022-10-23 2022-10-24

2022-10-25

## ▼ 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]]

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

import pandas as pd

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

ls = pd.DataFrame(data,columns = ['tag','number'])

df
```

	name	register n	10
0	srivishnu	7	7
1	srinithi gayathri	7	78
2	srivignesh	7	79

from google.colab import drive
drive.mount('/content/drive')

Mounted at /content/drive

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