## → Basic Python

▼ 1. Split this string

```
s = "Hi there Sam!"

s = "Hi there Sam!"

x=s.split()
print(x)

['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 Earth is {diameter} kilometers".format(diameter=12742))
    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']}]}]

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':[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']}]}]}]
```

Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
import numpy as np
np.zeros(10)
    array([0., 0., 0., 0., 0., 0., 0., 0., 0.])
import numpy as np
np.ones(10)*5
    array([5., 5., 5., 5., 5., 5., 5., 5., 5.])
```

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

```
print(np.arange(20,35,2))
     [20 22 24 26 28 30 32 34]
```

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

→ 7. Concatinate 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])
c = np. concatenate((a,b))
nrint(c)
```

```
9/22/22, 6:32 PM
PI TIIC(C)
```

[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=pd.DataFrame()
print(a)

Empty DataFrame
Columns: []
Index: []
```

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

```
import · datetime
import · pandas
test_date·=datetime.datetime.strptime("01-01-2023","%d-%m-%Y")
K ⋅=41
date_generated · = · pd.date_range(test_date, periods=K)
print(date_generated.strftime("d-%m-%Y"))
    Index(['d-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023',
            'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023',
           'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023',
            'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023'
           'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023',
           'd-01-2023', 'd-01-2023', 'd-01-2023', 'd-01-2023',
           'd-01-2023', 'd-02-2023', 'd-02-2023', 'd-02-2023', 'd-02-2023',
           'd-02-2023', 'd-02-2023', 'd-02-2023', 'd-02-2023',
           'd-02-2023'],
          dtype='object')
```

▼ 10. Create 2D list to DataFrame

Colab paid products - Cancel contracts here

✓ 0s completed at 6:23 PM

×