## Basic Python

▼ 1. Split this string

```
n = "Hi there Sam!"

N=s.split()
print(N)
['Hi', 'there', 'Sam!']

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

→ 2. Use .format() to print the following string.

Output should be: The diameter of Earth is 12742 kilometers.

```
planet = "Earth"
universe = 12742

output = "The diameter of {} is {} kilometers."
print (output.format(planet, diameter))

The diameter of Earth is 12742 kilometers.
```

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

```
o= {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]
print(o['k1'][3]['tricky'][3]['target'][3])
hello
```

## Numpy

```
import numpy as np
```

- - 4.2 Create an array of 10 fives?

```
sub = np.zeros(10)
print(sub)
      [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

p = np.ones(10)*5
print(p)
      [5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

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

```
import numpy as np
g = np.arange(20,35,2)
print(g)

[20 22 24 26 28 30 32 34]
```

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

```
import numpy as v
v= v.arange(0,9).reshape(3,3)
print(v)

[[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])
```

## 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]]
call = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
import pandas as pd
Dataframe = pd.DataFrame(call,columns=['S.no','Name','RollNo'])
print(Dataframe)
        S.no Name
                    RollNo
     0
           1 aaa
                        22
           2 bbb
                        25
     1
           3 ссс
     2
                        24
```

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