## **BASIC PYTHON**

1.Split this string

```
s = "Hi there Sam!"
s = s.split(" ")
s
['Hi', 'there', 'Sam!']
```

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

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

## Numpy

import numpy as np

- 4.1 Create an array of 10 zeros?
- 4.2 Create an array of 10 fives?

```
array([5., 5., 5., 5., 5., 5., 5., 5., 5.])
```

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

```
arr = np.arange(20,36,2)
arr
array([20, 22, 24, 26, 28, 30, 32, 34])
```

6. Create a 3x3 matrix with values

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])
c = np.concatenate([a,b])
c
array([1, 2, 3, 4, 5, 6])
```

## → Pandas

8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
A = np.random.randint(10, size=(3,2))
df = pd.DataFrame(A)
df
```

**0** 7 8

0 1

- **1** 5 6
- **2** 8 7

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

```
dates = pd.date_range(start ='1-1-2023',
         end = '02-10-2023')
for i in dates :
  print(i)
     2023-01-01 00:00:00
     2023-01-02 00:00:00
     2023-01-03 00:00:00
     2023-01-04 00:00:00
     2023-01-05 00:00:00
     2023-01-06 00:00:00
     2023-01-07 00:00:00
     2023-01-08 00:00:00
     2023-01-09 00:00:00
     2023-01-10 00:00:00
     2023-01-11 00:00:00
     2023-01-12 00:00:00
     2023-01-13 00:00:00
     2023-01-14 00:00:00
     2023-01-15 00:00:00
     2023-01-16 00:00:00
     2023-01-17 00:00:00
     2023-01-18 00:00:00
     2023-01-19 00:00:00
     2023-01-20 00:00:00
     2023-01-21 00:00:00
     2023-01-22 00:00:00
     2023-01-23 00:00:00
     2023-01-24 00:00:00
     2023-01-25 00:00:00
     2023-01-26 00:00:00
     2023-01-27 00:00:00
     2023-01-28 00:00:00
     2023-01-29 00:00:00
     2023-01-30 00:00:00
     2023-01-31 00:00:00
     2023-02-01 00:00:00
     2023-02-02 00:00:00
     2023-02-03 00:00:00
     2023-02-04 00:00:00
     2023-02-05 00:00:00
     2023-02-06 00:00:00
     2023-02-07 00:00:00
     2023-02-08 00:00:00
     2023-02-09 00:00:00
     2023-02-10 00:00:00
```

## 10. Create 2D list to DataFrame

```
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
df = pd.DataFrame(lists)
df
```

	0	1	2
0	1	aaa	22
1	2	bbb	25
2	3	ccc	24

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