Python for Data Analytics Learn everything about analytics



Scenario

$$sam = [45, 36, 54, 78, 44]$$

History -?

Geography -?

Analytic Geography Idhya

Learn everything about analytics 1 – History

2 - Mathematics

3 - Physics

4 – Chemistry



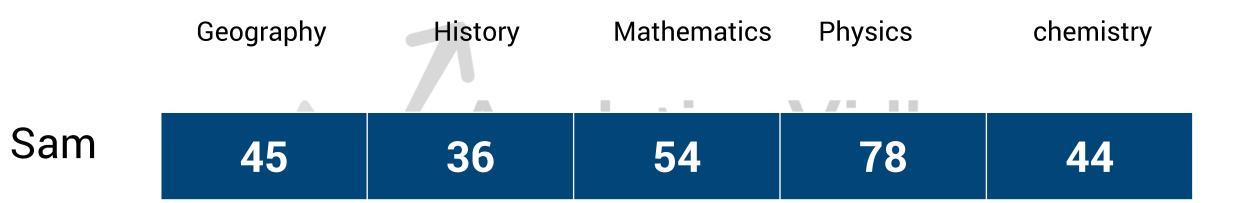
Scenario

- 1. Many a times this data is not available or hard to create.
- 2. Sometimes we do not want our data to be a sequence.
- 3. Also sometimes, we want to access our data by names as in the previous example.

Dictionary



Scenario





Dictionary Overview

Topics that we will be covering

- 1. What is a Dictionary?
- 3. Adding elements to a Dictionary Learn everything about analytics
- 4. Deleting elements of a Dictionary



What is a Dictionary?

A dictionary is an un-ordered data structure with elements separated by comma and stored as key: value pair. A dictionary is enclosed within curly brackets.

Some examples of List -

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```
dict1={'Ramesh': 150, 'Suresh': 146, 'Sudesh': 160}

Dictionary = key: value, value = number
```

```
dict2={'Ramesh':[150,46],'Suresh':[146,58],'Sudesh':[160,50]} 		← Dictionary = key: value, value = List
```



Accessing elements of a Dictionary

Elements are accessed by keys rather than index.

```
dict2={'Ramesh':[150,46], 'Suresh':[146,58], 'Sudesh':[160,50]}

Learn ev dict2[1]

Compared to the dict2[1]

Compared to
```



Accessing elements of a Dictionary

Elements are accessed by keys rather than index.

```
dict2={'Ramesh':[150,46],'Suresh':[146,58],'Sudesh':[160,50]}

Learn everything about analytics

dict2['Suresh']

[146, 58]
```



Adding elements to a Dictionary

```
dict2={'Ramesh':[150,46],'Suresh':[146,58],'Sudesh':[160,50]}
```

Adding a single element

```
dict2['Neeraj']=[176,75]
```

_earn

```
dict2
```

```
{'Neeraj': [176, 75],
 'Ramesh': [150, 46],
 'Sudesh': [160, 50],
 'Suresh': [146, 58]}
```



Adding elements to a Dictionary

```
dict2={'Ramesh':[150,46],'Suresh':[146,58],'Sudesh':[160,50]}
```

```
Adding multiple elements at once Lear dict2
```

```
dict2.update({'sunil':[150,70],'disha':[155,80]})

dict2

{'Ramesh': [150, 46],
   'Sudesh': [160, 50],
   'Suresh': [146, 58],
   'disha': [155, 80],
   'sunil': [150, 70]}
```



Deleting element of a Dictionary

```
dict2={'Ramesh':[150,46],'Suresh':[146,58],'Sudesh':[160,50]}

del dict2['Ramesh']

dict2
{'Sudesh': [160, 50], 'Suresh': [146, 58]}
```





