

## 6\_dataframe\_basic\_operation

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```
In [ ]: import pandas as pd
        from pandas import Series
        from pandas import DataFrame

        import numpy as np
```

### 0.0.1 Series addition operation

```
In [ ]: s1 = Series(
        range(1,6), index=list("abced"))
        s1

In [ ]: s2 = Series(
        range(5,11), index=list("bcedef"))
        s2

In [ ]: s1 + s2

In [ ]: s1.add(s2)

In [ ]: s1.add(s2, fill_value=0)
```

### 0.0.2 dataframe operation

```
In [ ]: df1 = DataFrame(
        np.arange(9).reshape(3,3),
        columns=list("abc"))
        df1

In [ ]: df2 = DataFrame(
        np.arange(16).reshape(4,4),
        columns=list("abcd"))
        df2

In [ ]: df1 + df2

In [ ]: df1.add(df2, fill_value=0)
```

### 0.0.3 operations for dataframe with series

```
In [ ]: df = DataFrame(  
        np.arange(16).reshape(4,4),  
        columns=list("abcd"))  
df
```

```
In [ ]: s = Series(  
        np.arange(10,14),  
        index=list("abcd"))  
s
```

```
In [ ]: df + s
```

```
In [ ]: s2 = Series(np.arange(10,14))  
s2
```

```
In [ ]: df
```

```
In [ ]: df + s2
```

```
In [ ]: df.add(s2, axis=0)
```

```
In [ ]:
```